

The
CHEMIST AND DRUGGIST

Established 1859

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VOL. CXXV

JULY 18, 1936

Annual Subscription (with
Diary) 20/- Single Copies 9d.

**SALICIN B.P.
FOR INFLUENZA**

AMPLE SUPPLIES AVAILABLE TO MEET GROWING DEMAND

ALKALOIDS

*Goods covered by
Dangerous Drugs Acts offered
subject to all regulations*

**FINE
CHEMICALS**

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Blandfield Works

GLASGOW

32-4 Virginia Street

**OPIUM
DERIVATIVES**

LONDON

25 Christopher Street, E.C.2

T. & H. SMITH
LIMITED

THE SUMMER SOAP

Brings
GOOD PROFITS
from
HIKERS *for foot comfort*
SPORTSFOLK *against insect bites*
LADIES *as deodorant*

THE "SAFETY FIRST" Soap

NEKO
THE ORIGINAL
Germicidal
Soap, P.D. & CO.

AN EXCELLENT
PARFUM

'NEKO'
THE ORIGINAL
Germicidal
Soap, P.D. & CO.
THE "SAFETY FIRST"
SOAP

Send for Terms to — PARKE, DAVIS & CO., 50 BEAK STREET, LONDON, W.1.

MARLENE DIETRICH

In

DESIRE

This record-breaking film is to be generally released on the 3rd August.

Hundreds of Cinemas throughout the country will be displaying, NOT SELLING, our O'DESIRE perfume, and a slide will be shown on the screen telling the public to obtain this perfume from their local chemist.

The Cinema will not be allowed to sell any perfume.

Why not link up with this fortunate opportunity? We will send you, carriage paid, ON SALE OR RETURN, a range of our O'DESIRE Perfume, to enable you to have a good window display during the showing of the DESIRE film.

Please send IMMEDIATELY AND DIRECT TO US your request for goods on appro. for a window display. The following list will show you the various trade prices.

After one month, goods sold or retained by yourself will be invoiced to you by your usual wholesale house, NOT by ourselves.

Already we have arranged dozens of window displays with chemists.

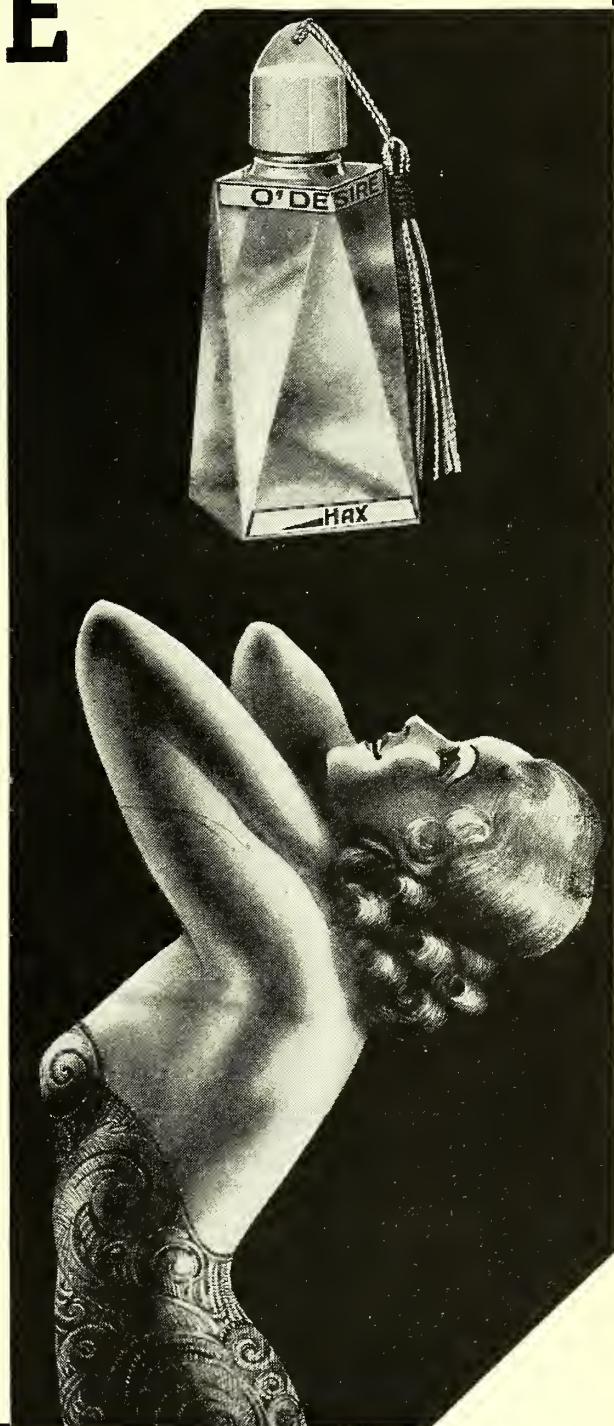
Sample Phials, Boxed Doz.	1/4 doz.
Do. in Bakelite case do.	2/- doz.
Bottles as illustration.	
1/4 oz. Packed doz.	-
1/2 oz. Packed half doz.	8/- doz.
1 oz. Packed single box	16/- doz.
2 oz. do	28/- doz.
4 oz. do	52/- doz.
8 oz. do	84/- doz.
16 oz. do	168/- doz.

Order today from your Wholesaler

EDWARD HACK LTD.

73-78 HIGH HOLBORN, LONDON, W.C.1

Telephone: Ho'born 1000, 4000, 6000, 9000



NURO FILM

THE "SENSITIVE" ARISTOCRAT OF FILMS

NURO film possesses in a greater degree than any other the essential qualities which are the very foundation of consistently good negatives. The scientifically balanced emulsion has produced a higher degree of latitude—which we have named "Lastic Latitude." This extra feature, coupled with high speed, fine grain and exceptional colour sensitiveness, will establish NURO as one of the finest and most popular films of today.

NURO . . The First and Only ALL-BRITISH FILM

NURO is the only British Film of which both the celluloid base and the emulsion are entirely of British manufacture. NURO film is fully orthochromatic, speed 27° Scheiner. Fine Grain. Red Dye Backed.



NURO FILM

Sensitive as Sight-British as the Flag

DISPLAY MATERIAL
NURO films are packed in attractive cut-out cartons to hold 12 spools. Other display material from special agents

NURO (Biggleswade) LTD., Biggleswade, Beds., England. Phone : Biggleswade 234. Grams : "NURO," Biggleswade

***In all* STANDARD SIZES & PRICES**

THIS DISPLAY MEANS EXTRA MONEY IN YOUR TILL

HINDS
HONEY & ALMOND
CREAM

SOOTHES & COOLS SUNBURN

*Beautifies and
Protects the skin*

6^D 1^L

P. A. T. A.

SIZE 12" x 12"

Compelling national advertising has made HINDS CREAM a first-class summer line. Sales this season are up practically to winter peak level.

This striking showcard will increase *your* summer sales. Send for one today. Attractive show material is always available.

A. S. HINDS LTD., LONDON, S.W.20

Two ideal Summer lines that show a generous profit!

ADVERTISING
CONTINUES
THROUGHOUT
THE SEASON

LIVER SALINE

A "Chemists' Friend" line
with an established demand

CAFFEINE

The Ideal Pick-me-up

WRITE TO-DAY
FOR SAMPLES
AND PRICES

* * *

Alfred



Bishop

48 SPELMAN STREET,

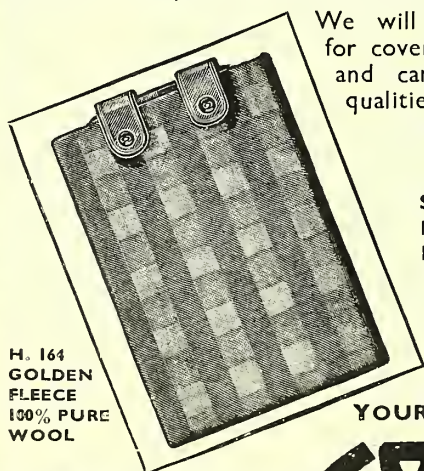
LIMITED

LONDON + E + 1 Telephone - Bishopsgate 2331.

HOT WATER BOTTLE COVERS

"IF WINTER COMES—" We realise that this is an early reminder, but last season so many of our friends were caught napping with the first cold snap. May we ask you to check your stocks as soon as convenient and purchase your supplies even if for forward delivery. Our H14^A Velours Cover is still the very best for general sale. The H164 "Golden Fleece" Pure Wool cover is delightfully warm and comforting and sells at a modest price, and, for a cheap line, we recommend H19^B Check Molleton as illustrated below.

We will welcome your enquiries for covers for **Moulded Bottles** and can offer several popular qualities to fit 2 and 3 quart sizes, from Stock

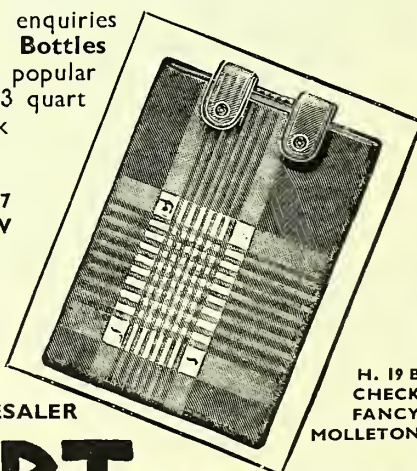


H. 164
GOLDEN
FLEECE
100% PURE
WOOL

SEASON 1936-1937
PRICE LIST NOW
READY.

APPLY FOR
A COPY AND
SAMPLES THEN
ORDER

THROUGH
YOUR USUAL WHOLESALER



H. 19 B
CHECK
FANCY
MOLLETON

SOLPORT

BROTHERS LIMITED

184-192 GOSWELL ROAD

LONDON, E.C.1

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The Public will have

MOORLAND
BRAND
INDIGESTION TABLETS

● Continuous advertising
● Continuous demand
● Continuous profits
Are you keeping up a continuous display?

However many times you dress your window, it will pay you to keep Moorland Tablets well to the fore every time. No competitive line enjoys such tremendous customer-satisfaction as Moorlands. Their reputation is unrivalled and grows bigger and bigger through constant recommendation. Then there is the support of nation-wide publicity: vigorous, convincing advertising which keeps the sales curve of new business constantly upward.

W. B. CARTWRIGHT LTD., RAWDON, LEEDS

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Everything in Photographics

FOR
ALL DEALERS
ON THE APPROVED LIST OF
PHOTOGRAPHIC DEALERS

SPECIAL NOTE
We carry stocks of
"CORONET" "ENSIGN"
"SOHO" and other Cameras,
"AGFA," "ENSIGN," "SELO,"
and other films and all photographic requisites

WRITE FOR PRICE LIST
Please remember that all your requirements may be obtained from

John Thompson Ltd.

(WHOLESALE
DRUGGISTS, 1921)
APPROVED PHOTOGRAPHIC DEALERS
27-35 DUKE ST., LIVERPOOL
Telegrams: 'Drugs' L'pool. Telephone: Royal 1434 (6 lines)

VENO DRUG CO. LTD.

The bulk of your business

THE CREAM OF YOUR PROFITS

A large and trouble-free turnover . . . that's what the Veno products are giving to their thousands of stockists. Powerful press advertising keeps these products constantly before millions of potential customers. Safety and efficacy are guaranteed. Don't miss such a rich source of profits—write for terms and show material to the Veno Drug Co., Ltd., 420, Chester Road, Manchester, 16.



KURBOIL TABLETS

A preparation consisting of Tin and Tin Oxide, for oral administration in the treatment of Boils

SHOWCARDS AS ILLUSTRATED **FREE FOR WINDOW DISPLAY**

Tubes of 50 cartoned, packed in one dozen show outers, per **7/6** dozen

RETAIL **1/3** TUBE

You can't be beautiful with a spotty face!
TAKE
KURBOIL TABLETS
AND BE FREE from SPOTS · PIMPLES · BOILS · ACNE · STYES · CARBUNCLES

Prevent days of suffering!

KURBOIL TABLETS
TAKEN REGULARLY
KEEP THE SKIN CLEAR AND HEALTHY

KURBOIL TABLETS
For the treatment of BOILS, STYES and CARBUNCLES.

KURBOIL TABLETS
For the treatment of BOILS, STYES and CARBUNCLES.
Take two tablets three times a day until eruption disappears. The course of these tablets will further reappearance.

ARTHUR H. COX & Co. Ltd

Manufacturing Chemists

BRIGHTON

It had to come!

MACLEANS PEROXIDE TOOTH POWDER!



National advertising has made "Macleaning" the teeth such a widespread habit, that the public now look to Macleans to fulfil *every* type of dentifrice need. And so now, for those who have been urging its introduction for so long, we have produced Macleans Peroxide Tooth Powder, to meet the need of this section of the market. The new powder will sell on display, for the public are 100 per cent. Maclean-conscious, and the handy little blue and white tin links up with a familiar Colour-scheme. Macleans Peroxide Tooth Powder retails at sixpence and, we believe, will prove a profitable addition to the quick-selling Maclean family.

**Display it on this
attractive Stand.
FREE WITH EVERY ORDER.**

This attractive little show-stand occupies only 7" of window shelf space, stands but 11" high and slips neatly into any display. Ask our representative to show you a specimen.

PRICES. Our prices for this line are the same as those for Macleans Peroxide Tooth Paste (six-penny size). Write, wire, or 'phone for best terms. 'Phone, Ealing 6616. Wires, Macleans, Brentford.



MACLEANS LIMITED

GREAT WEST ROAD, BRENTFORD, MIDDLESEX.



ARMOUR'S FLAVOURED JUNKET

A NEW PREPARATION TO CREATE NEW SALES

EASY TO PREPARE
A DELICIOUS
SWEETENED AND
FLAVOURED JUNKET
FOR THE SICKROOM
NURSERY & TABLE

ADD CONTENTS TO
A PINT OF WARM
MILK — STIR GENTLY
AND ALLOW TO COOL

**3 1/2
OZ
EACH**



**BOX
OF
24**

ARMOUR & COMPANY LTD.

LABORATORY DEPT., ARMOUR HOUSE, ST. MARTINS-LE-GRAND, LONDON, E.C.1

TELEGRAMS: "ARMOSATA-CENT."
LONDON
TELEPHONE: - - NATIONAL 2424

JUST OFF THE PRESS



- Don't miss your personal copy of Maw's 1936 Chemist Catalogue. It is the greatest Sundries Catalogue the trade has ever known.
- It is backed with a completely indexed range of professional and fashion merchandise items, well illustrated and accurately described.
- No pharmacist can expect to get maximum results without using this Catalogue as a work of reference. Have you received your copy safely?
- It certainly pays to work hand in glove with Maw in 1936!
- ★ P.S. Don't miss the July issue of the Maw M.S.S.—another record number.

Can *you* make ADVERTISING pay?*

* *The retailer can speed up his turnover by stocking the right kind of advertised goods for which a brisk demand exists. Therefore the more he knows about advertising methods the cleverer he will be as a buyer and in that sense advertising will pay him handsomely. The facts below are worth studying.*

When you realise the unique circumstances in which the Radio Times is read you will understand why products regularly advertised in this remarkable paper are certain of a demand and can be stocked with complete confidence. The Radio Times is constantly referred to by every member of the family, women as well as men, during all the seven days of every week. Every time interest in the wireless lags for an interval the Radio Times gets the reader's attention. It is looked at when the mind is free and receptive

and inevitably the advertisements get seen, read and studied. This goes on in almost one in every four families in Great Britain and the immense influence which the Radio Times has upon the sales of goods advertised in its pages has been testified in scores of letters written by advertisers to the Radio Times from which the following is a typical extract: 'The Radio Times has produced better results than any other paper we have ever advertised in.' Consult the list below. It will help you in your buying.

The RADIO TIMES List for your trade

You can stock the products below with confidence because they are regularly advertised in the Radio Times and are therefore in steady demand because Radio Times readers respond to advertising.

The second half of this list will be published in the next Radio Times announcement in this journal.

Feen-a-Mint ' Ielma ' Sal-Hepatiea ' Ponds Cold Cream ' Vinolia Soap ' Venas Cough Cure ' Silvikrin ' Yardley Lavender Water ' Vionase ' Gibbs Dentifrice ' Silf ' Harlene ' Gibbs Shaving Cream ' Dettol ' Robinsons Patent Barley ' Robinsons Lemon Barley Water ' Germolene ' Izal ' Halex Brushes ' Jeyes Fluid ' Ciefa ' Irvona ' Erasmie Shaving Stiek ' Lux Toilet Soap ' Californian Poppy Perfume ' Crookes Halibut Liver Oil ' Virol ' Kleenex Kalzana ' Pears Golden Glory Saap ' Thermogene Vapour Rub ' Palmolive ' Joeigares ' Sloans Liniment ' Andrews Liver Salt ' Lady Gay Perfume ' Moorlands Tablets ' Selo Films ' Phosferine ' Oatine Vanishing Cream ' Mothaks.

Goods sell quickly when they're advertised in the

RADIO TIMES

Guaranteed Average Net Sales for 1936—2,600,000 per week

Magnesium Trisilicate (Evans)

A highly active Antacid and Adsorbent.

This pure synthetic form of Magnesium Trisilicate is fully effective in dyspepsia and hyperacidity without the disadvantages (alkalosis, etc.) of ordinary alkaline substances. It is very suitable for use in ulceration of the gastro-intestinal tract.

EVANS' MAGNESIUM TRISILICATE has exceptional adsorbent powers upon intestinal toxins, destructive ferments and food poisons.

Issued in Containers of:

4 oz.	...	...	each 2/6	16 oz.,	...	...	each 9/-
8 "	...	...	" 4/9	5 lb.	...	...	" 40/-

Subject

Prices to large buyers for bulk quantities on application.

Made at their Fine Chemical Works by

Evans Sons Lescher & Webb Ltd.

LIVERPOOL AND LONDON

SODIUM MANDELATE (Evans)

For the treatment of urinary infections

An effective alternative to the ketogenic diet

Issued in powder and tablet form

ALSO IN

Complete outfits (sufficient for 12 days' treatment) containing tablets of Sodium mandelate, capsules of Ammonium chloride, indicator and urine tube.

Special terms for bulk quantities

MADE AT EVANS' BIOLOGICAL INSTITUTE BY

Evans Sons Lescher & Webb Ltd.

LIVERPOOL and LONDON

AVA

IS NOW ON THE AIR

LISTEN IN TO RADIO LUXEMBOURG

ON SUNDAY, JULY 19th

at 7.45 p.m.

and each alternate Sunday

LINK UP WITH THIS BROADCAST
BY PROMINENTLY DISPLAYING

AVA

SOAPLESS SHAMPOO

Retailing at 4d. a packet

Trade Price 39 Shampoos for 7/6

(showing 42% profit)

AVA

COMPACT PERFUMES

Retailing at 1/- each (ONE SIZE ONLY)

Trade Price 8/- per dozen

AVA LTD., 9 PARK HILL, LONDON, S.W.4

CALVERT'S NEW 'AIRFLOW' FLASK

An Ideal Pack for
Cruising & Holidays



- So convenient
- Cannot spill
- Simple to use
- Profitable to sell

This Ingenious new container, recently introduced by Press and Radio advertising, makes Calvert's Tooth Powder, always the finest cleaner, now the most convenient to use.

Retail 1/- each.
List Price: 8/- per doz.
Your usual Wholesaler stocks it.

F. C. CALVERT & Co. Ltd. - Manchester, 11

HAND MADE

SUPER RAZOR BLADES

These are best sellers!

1^D EACH 2^D EACH 3^D EACH

7/3 PER GROSS **14/- PER GROSS** **18/- PER GROSS**

YOUR OWN TRADE MARK

ORDER NOW EITHER THROUGH YOUR WHOLESALE OR DIRECT!

(Samples with name of nearest wholesaler gladly sent on request)

WHOLESALE -
We specialize in the production of blades under your own name - send us particulars stating quantity of blades you are interested in - an offer with free samples will be sent per return.

RYDERS LTD.
RYDENE WORKS DUKES RD. WESTERN AV. ACTON, W.3

Ask your Wholesaler or representative will call.

*Phone :
Macaulay
5086.

Cables :
"SIMIE-
BRUSH,"
LONDON.

**INCREASE YOUR
SHAVING
BRUSH
SALES**

SIMPSON'S

Gold Medal Shaving Brushes
53, CLAPHAM HIGH STREET
LONDON, S.W.4



It means

MUTUAL SATISFACTION

Whether your customer merely wants a good film for holiday snaps, or a film with reliable orthochromatic, panchromatic or fine-grained qualities, recommend one from the SELO range. It means mutual satisfaction.

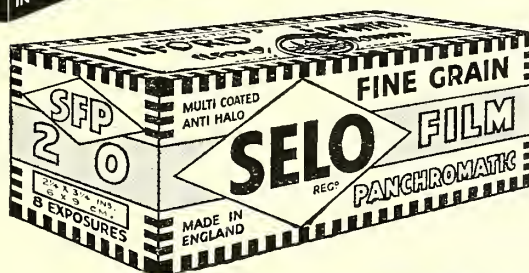


SELO

Fine Grain

PANCHROMATIC ROLL FILM

High colour sensitive and of extremely fine grain, this film enables enlargements to be made up to any reasonable size without trace of grain or "mealiness."

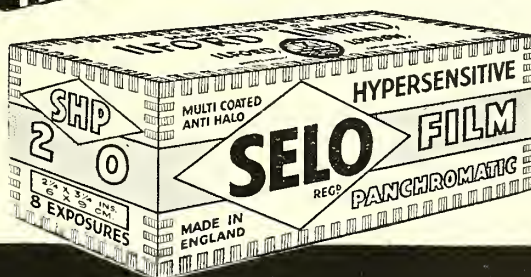


SELO

Hypersensitive

PANCHROMATIC ROLL FILM

The fastest film made. Selo Hypersensitive makes instantaneous photography practical in dull light and by artificial illumination. It is completely and evenly colour sensitive.



SELOchrome

Extra Fast

ROLL FILM

Multi-coated, highly orthochromatic and anti-halation backed — makes fast work easy under difficult conditions.

SELO

The Fast

ROLL FILM

A fast film possessing great latitude. Wholly dependable for all-round "snapshotting."

Made in England by
ILFORD LIMITED, ILFORD, LONDON



"The Puff that does Not Fluff"

A QUALITY PRODUCTION

Beautifully Finished. Soft Pleasing Shades.

Handkerchiefs in Fashionable Designs.

EACH PUFF IN CELLOPHANE ENVELOPE — STOCK ALWAYS FRESH

EASILY { STOCKED
HANDLED
SHOWN } COLOURS
DESIGNS
PRICE } ALL AT A
GLANCE

FIXED RETAIL PRICES

from 6d. upwards

STOCKED BY ALL WHOLESALERS.

A beautiful Silver Cut-out Shop stand will be given on request.

Ask for Samples and particulars from—

GRIMWOOD & DE GEUS

LIMITED

FINSBURY COURT, FINSBURY PAVEMENT

Telephone: NATional 0312

LONDON, E.C.2



WATCH FOR THEM IN—

London Evening Standard
Sunday Express
Sunday Dispatch
Sunday Chronicle
Sunday Times
John Bull
Sunday Mail
Sunday Post
Sunday Herald
Glasgow Weekly
Scottish Field
Tablet—Til Bits

WATCH SALES SOAR!

WATCH YOUR STOCKS!

New National Advertising Campaign
to consolidate the success of **MORNING PRIDE**

"Morning Pride" has taken premier place in the shaving cream market. First in public favour "Morning Pride" is second to none in rapidly increasing sales.

Look to your stocks and be sure of your share of profits from this new wonder shaving cream.

MORNING PRIDE

REGD.

THE RAZOR READY BRUSHLESS SHAVING CREAM

PRODUCT OF FAIRY DYES LTD., PHARMACEUTICAL DEPT.

For particulars of attractive Initial Order terms write

SOLE DISTRIBUTORS · FASSETT & JOHNSON LTD

86 CLERKENWELL ROAD, LONDON, E.C.1

The Latest DIXOR Line

DIXODOR

The DIXOR Deodorant

**Checks excessive perspiration
and prevents its offensive
odour. Harmless to the clothing**

Over 10,000 Samples

of Dixodor have been sent out during this last week. Be ready for the resulting sales.

Send a p.c. for the Counter Display Stand.

PRICES P.A.T.A.

Retail, 1/- bottle Wholesale, 8/- dozen



DIXOR LTD MORTLAKE, S.W.14



KENT

ESTD.
1777

**2 ATTRACTIVE
MODERN LINES!**

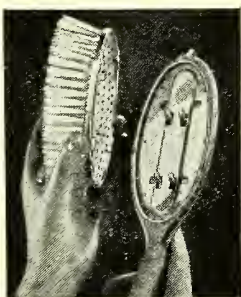
KENT-COSBY HYGIENIC REFILLABLE HAIRBRUSH

(PATENTED)

- BRISTLES TAKE OUT TO WASH
- HANDLE BACK NEVER SPOILT BY WATER

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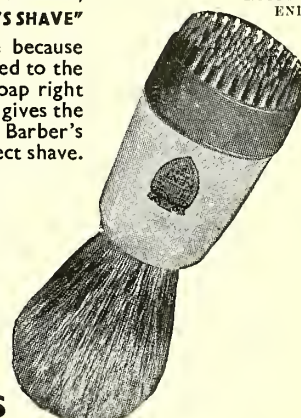
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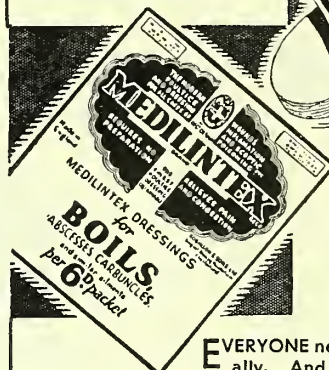
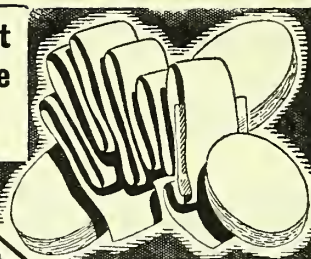
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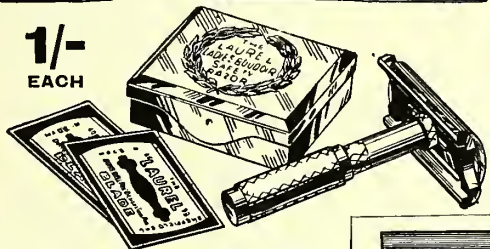
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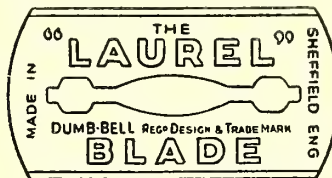
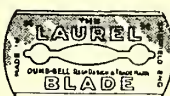
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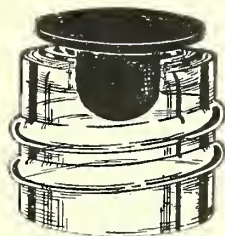
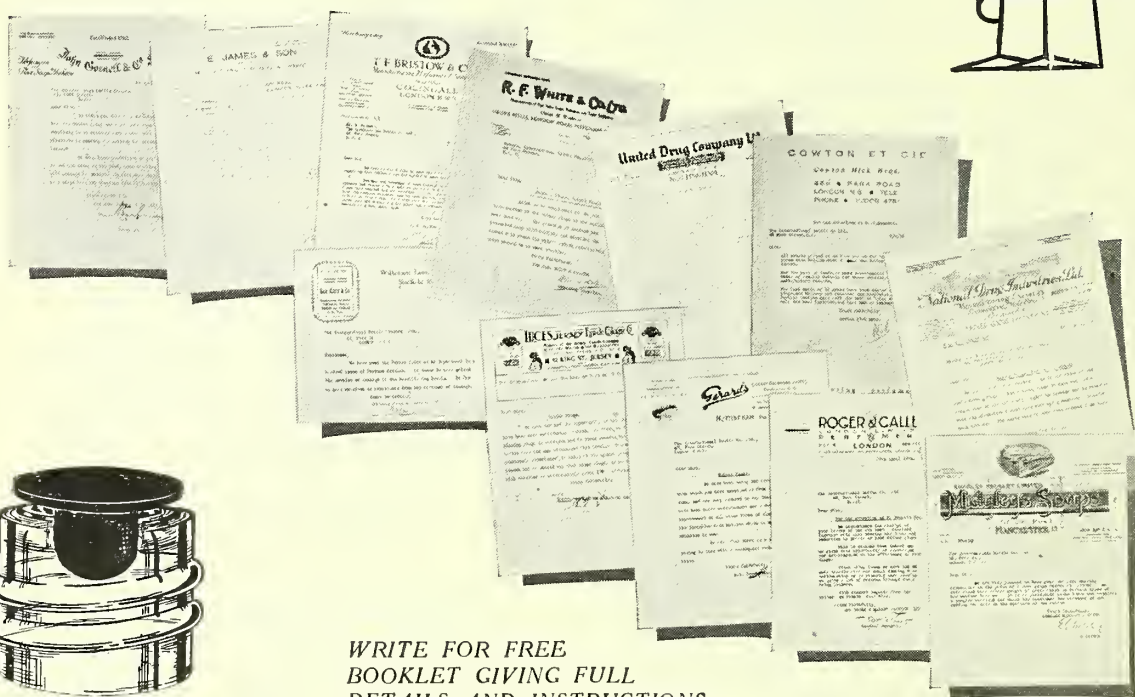
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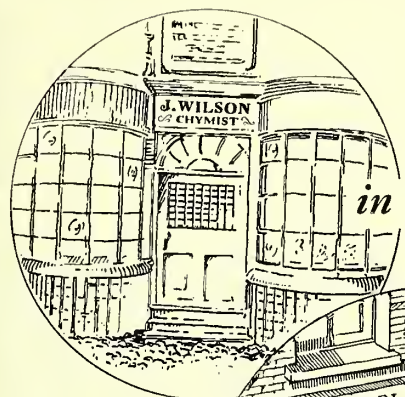
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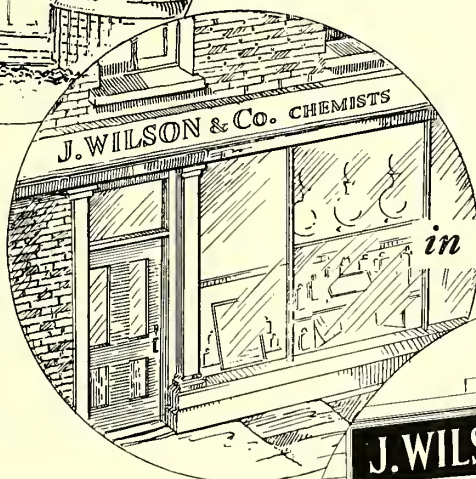
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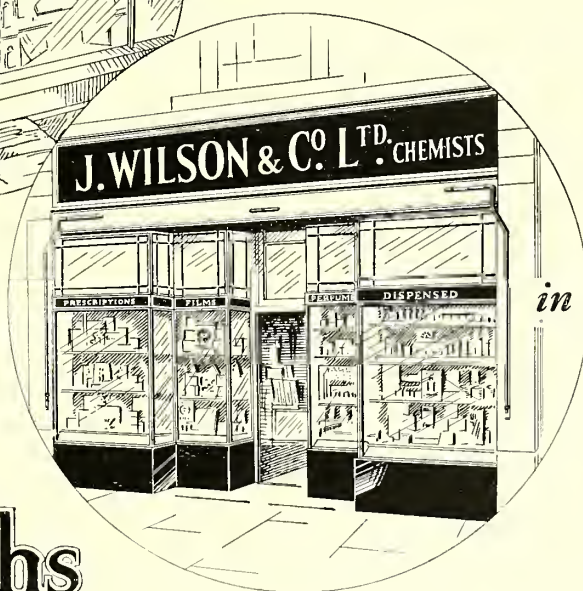
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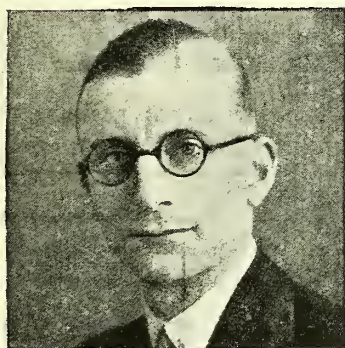
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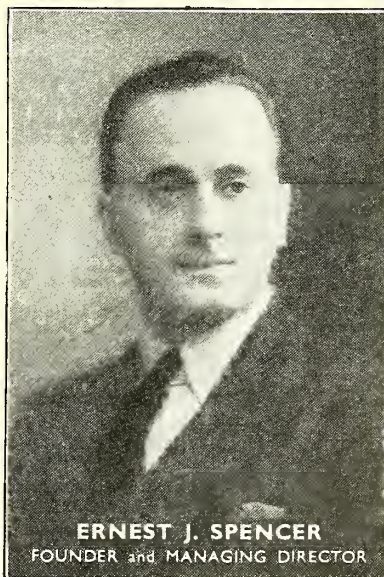
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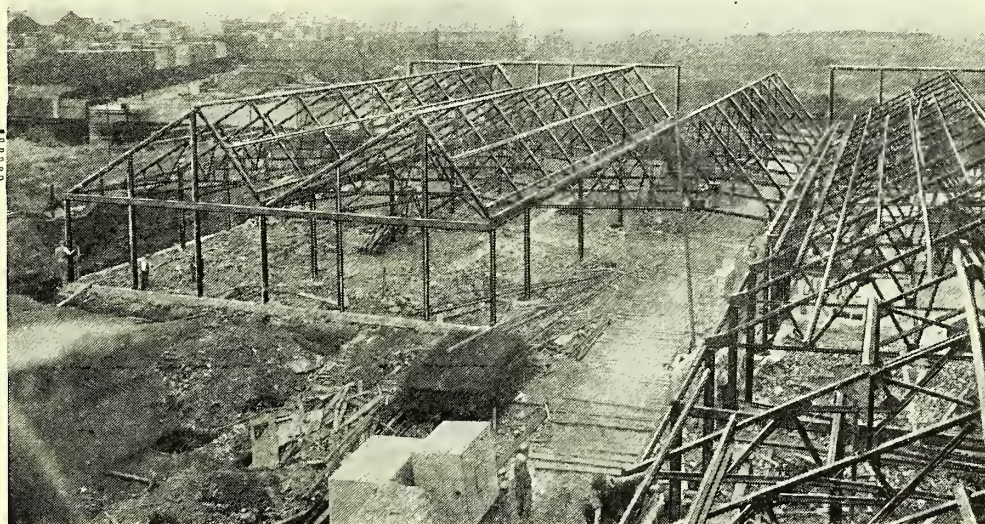
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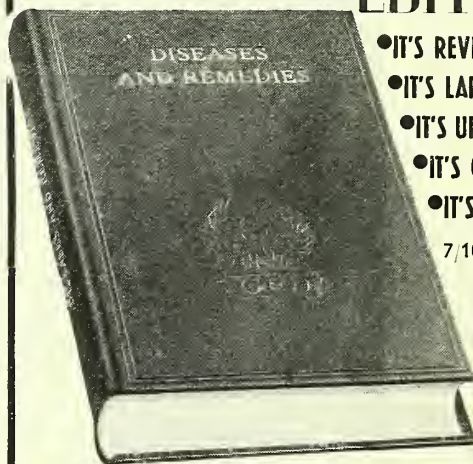
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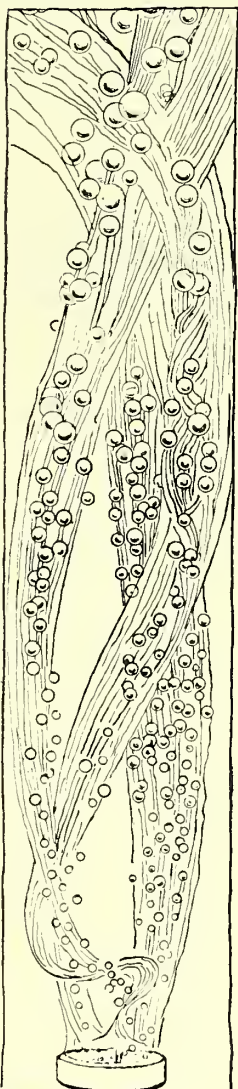
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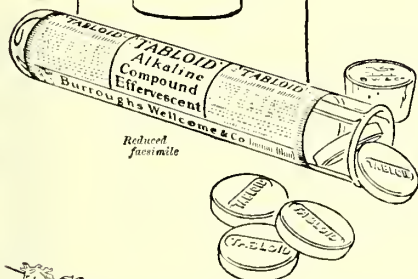
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News of the Week

Import Duties Advisory Committee Notice

The Import Duties Advisory Committee give notice of an application for drawback under Section 9 of the Finance Act, 1932, in the case of unexposed sensitised photographic film in respect of duty payable under the Import Duties Act, 1932, on cellulose acetate photographic film base in rolls used in its manufacture. Any representations which interested parties may desire to make in regard to this application should be addressed in writing to the Secretary, Import Duties Advisory Committee, Caxton House (West Block), Tothill Street, Westminster, London, S.W.1, not later than July 25, 1936.

Shops (Sunday Trading Restriction) Bill

On July 14 the report stage of the Shops (Sunday Trading Restriction) Bill in the House of Lords was concluded. A few changes in its provisions were made, the principal one being that the date of coming into operation was altered to May 1, 1937.

Society of Chemical Industry

The Lord Mayor of Liverpool welcomed the fifty-fifth annual conference of the Society of Chemical Industry in Liverpool on July 7. He referred to the Muspratts, Gaskells, Brunners, Mond and Levers. Among other local names that stood out prominently for distinguished services were those of the late Dr. Hurter (chief chemist of the United Alkali Co., Ltd.) and Sir Christopher Clayton. Mr. J. W. Towers, of Widnes, was welcomed as belonging to Greater Liverpool, and Alderman Edwin Thompson, a former president of the Society, was

present. The Vice-Chancellor of the University also welcomed the delegates. The retiring president (Mr. W. A. S. Calder), speaking on "The Chemist as World Citizen," paid a tribute to the services of Sir Henry Roscoe.

On July 8 the Society's Messel medal was presented to Sir Robert Mond, who gave an account of "Works as I Have Seen Them Grow" in his Messel memorial lecture. The lecturer gave an account of his association with his late father, Dr. Ludwig Mond, and the discovery and development of chemical processes at Winnington and elsewhere. Since those days technical conditions had improved. Proposing "The Lord Mayor and City of Liverpool" at the annual dinner on Wednesday evening, Viscount Leverhulme referred to the historical association of Liverpool with the heavy chemical industry. Alderman Edwin Thompson gave the toast to "The President."

At a meeting of the Plastics Group on Thursday, Dr. R. Houwink (Holland) gave an address on "Synthetic Resins, their Formation, Properties and Possibilities." He described what has been demonstrated or is deduced from ascertainable facts to be the probable course of events, with regard to the interaction of the molecules of resins, both natural and synthetic, upon which the elastic and plastic properties of these substances depend. He said the most urgent need was for stronger, more elastic and more shock-resistant products. The properties of the resins themselves must be improved along the lines which research indicated as being the most promising, and he drew particular attention to the requirement of greater strength. The chairman (Dr. L. A. Jordan) said it was now possible to compare the mechanical strength of synthetic resins

with that of metals, and it was reasonable to see the possibility of an industrial revolution.

A luncheon given by the Delegate Board of I.C.I. (General Chemicals), Ltd., followed, at which Mr. F. W. Bain (chairman) presided. Sir Hector Hetherington (Vice-Chancellor of the University), proposing the toast of "The Society," said his own and other universities owed a great deal to the industry. The I.C.I. had given a new chemical laboratory to the University, and they also owed a great deal to Lord Leverhulme and his father and the firm they represented. Over 400 delegates were entertained at a dinner and dance on July 9 by Lever Brothers, Ltd., Port Sunlight. At the close of the dinner the retiring president invested Lord Leverhulme with the chain of office as president of the Society.

New Scales of Wages

A meeting took place in London, on July 2, between representatives of the Drug and Fine Chemical Manufacturers' Association and the Joint Trade Union Committee for the Drug and Fine Chemical Trade for a restoration of wage cuts made in 1931. There is a national agreement between the two bodies, and it is within the ambit of this agreement that restorations have been sought since 1934. A subcommittee from both sides has been set up to deal further with the Trade Union application. Meanwhile the restored minimum cuts to adults have been paid, and the new adult scales are as follows:—

<i>Men</i> , twenty-one years of age and over:—					
Grade 1	...	...	...	...	63s.
Grade 2	...	...	...	...	58s.
Grade 3	...	...	...	...	53s.

<i>Women</i> , twenty-one years of age and over:—					
Grade 1	...	...	...	...	36s.
Grade 2	...	...	...	...	30s.

University of London

The pass list in the recent B.Pharm. Examination, issued subject to approval by the Senate, is as follows:—Brown, Irene P., College of the Pharmaceutical Society; Byfleet, H. S., Bradford Technical College; Cranston, J. C., Brighton Technical College; English, E., Brighton Technical College; Forsdike, J. L., College of the Pharmaceutical Society; Kaye, R. C., Bradford Technical College; Latimer, D. E., University College, Nottingham; Melville, C., Cardiff Technical College; Mumford, F. R., University College, Nottingham; Partridge, M. W., University College, Nottingham; Rogers, A., University College, Nottingham; Samways, E. K., College of the Pharmaceutical Society; Shellard, E. J., College of the Pharmaceutical Society.

Sporting Events

The annual golf match between the Manchester and Birmingham Golfing Societies for the B.D.H. trophy took place at Hawkestone Park Golf Club, Salop, on July 12. Incassant rain fell while the match was being played. The result was a decisive victory for Birmingham. The details were:—

<i>Birmingham</i>		<i>Manchester</i>	
F. L. Dent (Capt.)	...	J. A. Collins	...
A. S. Price	...	C. Stevens	...
J. Shelley	...	W. E. Phillipson	...
E. Margerison	...	R. McGarroll	...
J. E. Mossman	...	P. W. Stuart	...
R. O. Busby	...	A. A. Dockree	...
T. H. Martin	...	F. D. Gee (Capt.)	...
W. O. Payne	...	T. Miller	...
D. A. Wight	...	S. M. Bostock	...
H. P. Hague	...	W. J. Hope	...
F. C. H. Foster	...	J. Lomax	...
M. Smith	...	J. W. Lowe	...
A. V. Sorge	...	I. H. Franklin	...
S. Ward Williams	...	E. Stabler	...

Mr. Wilson attended on behalf of The British Drug Houses, Ltd., and presented the trophy to F. L. Dent, the Birmingham captain. He congratulated the Birmingham players on their success under adverse conditions, and remarked that the game had been more like a swimming competition than a golf match. Messrs. J. H. Franklin, Manchester, and A. S. Price, Birmingham, expressed the indebtedness of the members of both societies to The British Drug Houses, Ltd., for adding interest to the meeting by the presentation of a trophy.

Outings

The staff of Whiffen & Sons, Ltd., manufacturing chemists, London, S.W.6, accompanied by Mr. G. G. Whiffen and Mr. N. H. Whiffen, visited Weymouth on June 27 for their annual outing, and passed a pleasant day in that town. The weather was kind except for a little sea mist, and every advantage was taken of the conditions. A trip by steamer to Portland Bill in the afternoon added greatly to the general enjoyment.

The annual summer outing of the Icilmia Co., Ltd., London, N.W.1, took place on July 3. The "Isle of Arran" was specially chartered for the occasion, and the party had an enjoyable trip from Tower Pier to Southend and back, enlivened by dancing and deck games. Lunch and tea were served on board, and the afternoon was spent at Southend, where full advantage was taken of the many attractions available.

Liverpool

Through the courtesy of Mr. F. A. Lawman (chairman of Vinolia, Ltd.) the Birkenhead and Wirral Pharmacists' Association is to pay a visit to Port Sunlight on July 30, meeting there at 2.30 p.m.

In returning a verdict that Rhona Neville, aged three, died from the effects of phenol poisoning, the Liverpool city coroner added: "I am not prepared to say how the child became subjected to the phenol—an open verdict." A witness stated that a man in Manchester gave him a white substance for killing vermin and, after wrapping it, wrote on it "Mix with water." Witness mixed it in an enamel cup next day, and after using it left the cup on a kitchen window-sill.

London

On July 2 a party from the West Ham and Eastern District Association of Pharmacists paid a visit to the works of Glaxo, Ltd., Greenford. After an introductory talk on the principal processes to be seen, the party was divided into three groups, who were conducted round the building by Mrs. Gilbert, Mr. James and other guides. Perhaps the most interesting part of this tour was the production of vitamin D, but many clever pieces of machinery were equally fascinating. An automatic ampoule-filling machine, a most sensitive balance (which showed the result on a small screen) and the devices for counting tablets were particularly of interest to pharmacists. For their wives, a room full of white rats provided some excitement. After tea, Mr. Reed (secretary), in the absence of the president, thanked the management of Messrs. Glaxo for their hospitality in providing so entertaining and instructive an afternoon. Mr. James replied.

The fifteenth annual inter-Association sports contest for the Maw challenge shield was fixed for July 9 at the sports grounds of S. Maw, Son & Sons, Ltd., Monken Hadley, New Barnet. Rain, however, blotted out any possibility of a contest. Over 100 competitors assembled for the respective games, but the "spoil sport" continued until nightfall. Mr. A. Porter and Mr. Vernon Porter, with able assistants, managed to fix up some indoor amusements until tea-time, which enabled the crowd to continue in hope that the deluge might stop. After tea the pavilion was given up to dancing. Meantime, ten stalwarts faced the elements for a nine-hole contest at golf. Though the greens were partially under water, some remarkable returns were handed in: E. C. Pryce (N.) 33, W. Hargreaves (N.) 34, A. W. Daniel (E.) 37, and F. G. Wells (S.W.) 38. The first two were awarded the special golf prizes. In spite of the rain a joyful afternoon was spent. The greatest regret was for Messrs. Maw, who provided all the judges and markers, and to Mr. G. A. Tocher, who had made the other arrangements. The shield will remain as in 1935, jointly held by the Eastern, Western and Northern. This is the first time the Associations have failed to carry through the annual tournament.

Miscellaneous

NATIONAL RADIUM TRUST.—The National Radium Trust met on July 13 at the Privy Council Office, London, S.W.1. Plans for making available further substantial quantities of radium were considered, and certain purchases were authorised.

UNSTAMPED CARDS.—At Newton Abbot Police Court, on July 14, the Pharmacists' Mutual Supply Association, Ltd., Fore Street, Kingsbridge, and Mr. Norman Vincent Stow,

managing director, of the same address, answered six summonses relating to failure to stamp employees' insurance cards. Dr. F. Bryan, prosecuting, said that on October 18 last an inspector visited the company's office and found various insurance books and cards, mostly two or three years in arrears. Mr. Stow was interviewed, and admitted employing the persons concerned and paying them what he could. The matter was distinctly serious, for the arrears amounted to over £70 and the position of the insured persons in regard to benefit at the present time was quite hopeless. Mr. Stow, on behalf of the company, had paid up the amount of arrears claimed on the actual summonses, totalling £31 12s. 3d. Mr. Stow told the magistrates that during the period mentioned as managing director of the company he had not been a free agent. The business had been in process of winding-up. A fine of 5s., with 6s. costs, was imposed in each of the six cases, a total of £3 6s.

CLOSING LEGISLATION IN JERSEY.—A statute just passed by the States of Jersey stipulates that shops, restaurants, etc., must remain closed each week-day between 1 and 6 a.m. and on Sundays, except where a Sunday opening permit has been granted. The new law does not, however, apply to chemists "in the legitimate exercise of their profession."



THE EXHIBIT OF BOOTS, LTD., AT THE ROYAL AGRICULTURAL SHOW, BRISTOL

Irish Notes

Brevities

Mr. D. Fitzpatrick (May Roberts (Ireland), Ltd.) has been presented with a gold wristlet watch on terminating his service with the company to take up a position in New York.

On July 19 the Irish Chemists' Golfing Society travel to the Baltray links, co. Louth. Two cups, which are presented by Kodak, Ltd., and Horlick's Malted Milk Co., Ltd., are the subject of competition in the morning. A luncheon interval precedes the struggle for honours in the afternoon, when two prizes presented by Messrs. Selo and P. C. Cahill & Co., Ltd., are to be won. Those needing seats in cars should be at the Corinthian Picture House, O'Connell Street, Dublin, at 9.30 a.m.

Belfast

At the summer graduation ceremony at Queen's University, Belfast, on July 10, the degree of LL.B. was conferred on Mr. W. B. Rankin. Mr. Rankin is the eldest son of Mr. W. J. Rankin, Ph.C., honorary treasurer of the Ulster Chemists' Association. The degree of M.D. was conferred on Mr. Joseph Reid, M.B., Ph.C., Ballymena, who is in medical practice and carries on a pharmacy.

At Belfast Summons Court, recently, John Forster and John Frederick Forster, Ormeau Road, and Robert Hamilton, were summoned for having sold vinegar which was 14.5 per cent. deficient in acetic acid. It was stated that Hamilton was the Forsters' assistant. Mr. John Frederick Forster said the wholesaler from whom they bought the vinegar had given a verbal guarantee. Major McLean, R.M., applied the Probation of Offenders Act on payment of 9s. costs.

About 100 members of the staff took part in the annual excursion of Thomas McMullan & Co., Ltd., Belfast, to Portrush. Except for one or two showers the weather was good. After a substantial meal Mr. T. W. Gibson took the chair and apologised for the absence of the directors owing to various causes. Mr. Frank Kinney, Mr. Sam Hill and Mr. Tom Macartney proposed, seconded and supported a vote of thanks to the directors for their hospitality. The motion was passed with acclamation. The arrangements were carried out by Messrs. Gibson and Johnston.

Scottish Notes

North British Executive

A meeting of the Executive of the North British Branch was held at 36 York Place, Edinburgh, on July 8, Mr. F. W. M. Bennett in the chair. Apologies for absence from Messrs. Currie, Dick, Guthrie and Hay were intimated. The chairman said before beginning the regular business he would take the opportunity of conveying to Mr. Rutherford Hill the congratulations of the Executive on the well-deserved honour conferred on him by his Majesty the King. Mr. Rutherford Hill thanked the Executive. Mr. F. W. M. Bennett (Arbroath) was elected *Chairman*, and Mr. W. S. Culbert (Airdrie) *Vice-Chairman*. The usual committees were appointed. The chairman said they would have observed that at the last Council meeting Mr. Rutherford Hill, the resident secretary, had been granted leave to retire as from October 1, and that Dr. Joseph Tait had been appointed resident secretary, to begin on October 1. When he (the chairman) first heard this intimation he felt he could not conceive of pharmacy in Scotland without Mr. Rutherford Hill at the helm. Mr. Hill, however, with that far-seeing insight which characterised him, had evidently thought it wise to retire while his advice and assistance would still be available in the transition period. One satisfaction they had was that Dr. Tait, whom they knew so well and respected so highly, had been appointed to succeed Mr. Rutherford Hill. The chairman reported on his visit to the Conference meeting in Bournemouth. With their old and esteemed friend, Mr. Bilson, as chairman, Mr. Scampton and his committee, who must have had a few months of hard work, had so admirably arranged all the details that everything ran smoothly during the Conference week. Under the able, quiet and dignified chairmanship of Mr. Harold Deane, he thought the meetings of the Science Section this year included more interesting subjects among the papers read. The meetings of representatives were largely attended. The meeting of branch secretaries was again a splendid and profitable meeting. The chairman also referred to the Sports Day and to the success of the Scottish competitors. Reference was made to the report of the Committee on Scottish Health Services which has just been issued. (See p. 78.)

Brevities

George Banks, chemist and druggist, Wick, and William Cumming, chemist and druggist, Thurso, photographed at the inter-county bowling match (Caithness v. Sutherland) on the Brora bowling green, Sutherlandshire. This is the only competition in which these old friends play on the same side. In inter-city and in masonic matches they each skip for their own team.

Dundee School of Pharmacy Former Students' Association organised an outing to St. Andrews recently. Visits were made to the cathedral, tower, and the Step-rock Bathing Pool. After tea a walk was taken along the cliffs and braes



before the return to Dundee in the evening.

Items in Parliament

NEW INDUSTRIES IN SPECIAL AREAS

A list of new industries established in Durham and Northumberland from 1933 to 1935, given by the President of the Board of Trade, included the manufacture of solid carbon dioxide and synthetic fertilisers.

SPÄHLINGER VACCINE

Mr. Haslam asked the Minister of Agriculture whether the investigations of the Spählinger vaccine had been commenced and were making progress; and whether he could make a statement on the matter?

Mr. Elliot: The question of conducting tests with the Spählinger vaccine in this country is still under consideration. I am not yet in a position to make a statement on the matter.

SHOPS IN HOSPITALS (RATING)

Mr. Rhys Davies asked the Minister of Health whether his attention had been drawn to the privileged position of shops inside hospitals, clinics, and within the precincts of railway stations in respect of rating; and whether he proposed to inform the rating authorities that such premises should be rated separately and on a basis which would be in keeping with the burden of assessment on ordinary trading premises?

Sir K. Wood: My attention has not previously been drawn to this question as regards shops in hospitals and clinics. As regards shops in railways stations, the House of Lords recently held, on a series of test appeals, that the premises under appeal were not railway hereditaments and should be rated separately, and effect will doubtless be given to the principles enunciated in those decisions in the assessment of such premises. Under the law governing the valuation of properties other than rail-

way hereditaments the question of separate assessment is one for determination on the facts of each case by the assessment committee concerned. I have no power to give directions in the matter.

COMMERCIAL TRAVELLERS' CARS

Mr. Rickards asked the Minister of Transport [on July 8] whether he was now in a position to state what action he proposed to take with regard to the representations recently made to him by a deputation representing commercial travellers?

Mr. Hore-Belisha: The United Commercial Travellers' Association of Great Britain and Ireland recently represented to me that commercial travellers who slightly adapted ordinary private cars to carry samples not for sale were placed under certain disabilities through having to take out "C" licences for their vehicles as if these vehicles were commercial vehicles. I have made regulations which will relieve this hardship.

MEDICINE-STAMP DUTIES

Ordered [on July 8], "That a Select Committee be appointed to consider the duties of excise chargeable under the Medicines Stamp Act, 1802, the Stamp Act, 1804, and the Medicines Stamp Act, 1812, and any enactment amending those Acts, and to report thereon and make such recommendations for the alteration of those duties or otherwise as they think fit with a view to reforming the law relating thereto."

Committee nominated of Mr. Acland, Mr. Baxter, Rear-Admiral Beamish, Mr. Benson, Sir Reginald Blair, Mr. Cary, Sir John Ganzoni, Mr. George Hall, Mr. Hardie, Mr. Haslam, Mr. Lewis Jones, Mr. Keeling, Mr. Lathan, Captain Ramsay, and Sir Arnold Wilson.

Ordered, "That the Committee have power to send for persons, papers, and records."

Ordered, "That five be the quorum."

Topical Reflections

By Xrayser

Your Editorial Article

on "The Fixing of Standards" (*C. & D.*, July 11, p. 59) draws attention to the danger of allowing magistrates, on the advice of analysts, to fix standards for commodities not hitherto provided with them, although it may be wise policy that such should be fixed. The principal argument against the practice is that the opinion may be given by a person who may not be best qualified, by experience and knowledge of the particular article, to fix a standard. An analyst, although possessing the necessary technical skill, may yet be unable to exercise a sound judgment upon questions which have not come within the ambit of his everyday work: the magistrate, wishing to be impartial but knowing nothing about the subject on the scientific side, may be influenced by the analyst and so a standard may be fixed quite unsuitable for the article in question. The fixing of pharmaceutical standards is on a very high level; and when it is remembered that such work is only accomplished as the result of extensive research, it will be realised that the calling is far ahead, in this matter, of many others. The fact is that standardisation generally is, in this country at all events, still in its infancy, and that much pioneer work along this line has yet to be done not only in science but also in industry.

Although I Sympathise

with the efforts of the New Zealand pharmacists to reserve dispensing to themselves, I am inclined to suggest that they will not be able to keep matters where they are at present. The previous New Zealand Government authorised two multiple shops to be opened pending the appeal the account of which you publish on p. 60; the Pharmaceutical Society of that Dominion is endeavouring to limit existing companies to the premises they now occupy and to see that no new companies are allowed to commence businesses. In the Union of South Africa a similar state of affairs is to be found; the position, however, differs from that of New Zealand inasmuch as limited companies are already trading as chemists; the opposition of the pharmacists is directed to the

formation of bazaars with many departments, one of which may be a drug department with a qualified man in charge. We got over our troubles along similar lines in this country several decades ago. I am not at all sure that company pharmacy has been such a curse to the individual pharmacist as in his more pessimistic moods he appears to believe. It has exercised a stimulating effect upon his business methods, brightened up his pharmacies and revolutionised his methods of window dressing. I gather that the main trouble in New Zealand is likely to be the cutting of dispensing prices—that is, if the company shops grow. I suggest that this is a matter of arrangement between individual pharmacists and companies: to my mind it does not present an insuperable difficulty.

Warts and Their Treatment

have considerable interest for pharmacists (pp. 35, 69), particularly those who are or have been in business in country districts, as was my own experience. "Charms" were then much in vogue. It was quite a common experience for a customer to say, holding out a hand badly disfigured with these excrescences: "Can you give me something to cure these? I have had them charmed, but it does not seem to work in my case." Or I may have suggested the usual remedies, to no effect, and after using them for some time the customer would try a "charm" and the warts would disappear. There was, however, no certainty about the cure, either pharmaceutical or psychological. The usual "charm" practised in my neighbourhood was to cut notches in a stick to the number of warts it was desired to remove and then to bury it; in the course of so many days the warts were supposed to vanish. I have been curious to see what is suggested in the "New London Dispensary" of 1682 on the subject; "cures" for warts are there given to the number of three only, and these are of the caustic type. Whether this fact is due to the infrequency of the complaint I do not know: probably the truth is that they were common but were not noticed to such an extent in those days, when the care of the skin was not studied so much as in more recent times.

Legal Reports

An Oversight.—At Douglas, Isle of Man, on July 10, Halton & Son, chemists, Douglas and Onchan, were summoned for using the title "druggists and chemists" without having a qualified chemist on the premises. Mr. Eric Fargher, who defended, explained that the firm had three shops, and one of these in Market Street had been demolished. They had temporary premises in Duke Street, where the sign "druggists and chemists" was displayed; there was not a qualified chemist in the shop, but no poisons were on sale. The high bailiff regarded the offence as an oversight, and imposed a fine of 10s., with 11s. costs.

Claim for Personal Injuries.—At Londonderry Recorder's Court, on July 8, Evelyn Edwards, Southend Park, claimed the sum of £50 from Mr. Ernest D. Barr, Ph.C., William Street, for personal injuries received when she fell on the floor of his shop, which was alleged to be in a dangerous and slippery condition, on January 18. Mr. C. A. Nicholson, for the plaintiff, said that she was in the shop as a customer, and as soon as she put her foot on the linoleum she slipped, fell and broke her wrist. The plaintiff gave evidence in support of counsel's statement. Mr. P. Dickson, for the defence: Did you wipe your feet on the mat to get rid of the snow on your shoes?—I did not notice any snow on them. Mr. Victor Rankin, assistant in the defendant's shop, said the floor was covered with ordinary linoleum; so far as he knew it had never been polished. Dismissing the case without prejudice, Judge Osborne said he was not satisfied that the floor was not a proper floor in all respects, nor could he find that the accident was due to any neglect on Mr. Barr's part to provide a floor that was perfectly safe for his customers.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office

QUANTOCK PERFUMERY CO., LTD. (P.C.).—Capital £500. Objects: To carry on the business of chemists, druggists, etc. R.O.: Kingsway, Fore Street, Seaton, Devon.

CHASE & BELL (EARLS COURT), LTD. (P.C.).—Capital £500. Objects: To carry on business as wholesale and retail chemists and druggists, etc. R.O.: 12 Regent Street, S.W.1.

J. B. THOMPSON, LTD. (P.C.).—Registered in Belfast. Capital £2,000. Objects: To carry on the business of wholesale and retail chemists and druggists, etc. R.O.: 101 Enfield Street, Belfast.

KATHERINE HOWARD, LTD. (P.C.).—Capital £500. Objects: To acquire the business of a proprietor of and dealer in cosmetics carried on by J. E. Sullivan at 6 Bryanston Street, W.1. R.O.: 6 Bryanston Street, W.1.

SMEDLEY & RELPH, LTD. (P.C.).—Capital £500. Objects: To carry on business as manufacturers of and dealers in chemicals, medicines and toilet requisites, opticians, etc. R.O. 1510 London Road, Leigh-on-Sea.

SILICAL WATER SOFTENERS (INDUSTRIAL), LTD. (P.C.).—Capital £5,000. Objects: To undertake supply, softening, purification, aeration and storage of water for industrial purposes, etc. Solicitors: Ernest G. Scott & Co., 33-34 Broad Street Avenue, E.C.2.

C. BENNETT & CO., LTD. (P.C.).—Capital £1,000. Objects: To acquire the business of a manufacturing chemist now carried on by Chas. A. White at 66/72 Princelet Street, Brick Lane, E.1, as "Jean Bennett Perfumery Co." Chas. A. White, Wharfemead, Bickley, Kent, permanent managing director.

A BOAKE ROBERTS & CO., LTD.—The report to March 31 shows a profit of £76,058. To this is added £70,343 brought in. Already paid or provided for: Directors' remuneration, £4,881; commissions and employees' profit sharing, £8,264; income tax, £9,927; debenture redemption, £1,750; staff provident fund, £105; preference share dividend to December 31, 1935, £5,000; interest dividends on ordinary shares, £10,000; leaving £106,474. Since March 31, 1936,

further interest dividends on ordinary shares, totalling 3 per cent., free of tax, paid, absorbing £6,000. Final ordinary share dividend of 2 per cent., free of tax, £4,000, making 10 per cent., tax free; to dividends equalisation reserve, £10,000; general reserve, £10,000; forward, £76,474.

SANGERS, LTD.—At the seventh annual general meeting of the company, Sir Ernest Sanger (chairman of the company) presided. In the course of his speech Sir Ernest said: The trading profits for the year have increased by £32,352 over the previous year. It is therefore recommended that the total dividend for the year be increased from 22½ per cent. to 25 per cent., and after effect is given to this the increase in the carry-forward will be £19,442, bringing that item up to £100,338. I now have pleasure in proposing: "That the report and accounts for the year ended March 31, 1936, be approved and adopted, and that a final dividend of 16½ per cent., less tax, on the ordinary shares be declared for the year ended March 31, 1936, payable on July 31, 1936, to the shareholders on the register on July 3, 1936, making the total dividend for the year 25 per cent., less tax." Mr. Fredk. J. Smith (managing director), in seconding the report and accounts, said: Your company has extensive ramifications as manufacturing and wholesale chemists, as well as owners of various proprietary trade marks. In addition to the wholesale business, your Board is responsible for the control and management of ten subsidiary and one associated companies, and it is gratifying to report that, with the exception of two subsidiaries that have not yet completed the first twelve months under our management, all these various concerns have declared satisfactory dividends, which have been brought into our accounts. The only part of the chemists' trade that we are not in any way engaged in is that of retail business. The Board are asking at the later meeting for authority to increase the capital of the company by the issue of a further four hundred thousand ordinary shares. It is not proposed to make any issue at the present time, and possibly not at all, but the directors feel it desirable to have some capital in reserve so that it may be utilised at any time if further development of the business requires it. I would like to thank my colleagues for their help during the past year, and, with them, to express our appreciation to the staffs of all our companies who have contributed to the satisfactory results we are able to place before you to-day. (Applause.) The resolution was carried unanimously. Mr. A. T. Webb, J.P., the retiring director, was re-elected. At an extraordinary general meeting of the company which was afterwards held, the following resolution was unanimously adopted:—"That the capital of the company be increased to £1,250,000 by the creation of 400,000 ordinary shares of 5s. each." A cordial vote of thanks to the chairman and managing director concluded the proceedings.

Voluntary Liquidation

Heyday Products, Ltd., Perivale, perfumery manufacturers. The statutory meeting of creditors of the above was held recently at the offices of the Association of Manufacturing Chemists, Holborn Viaduct, London, E.C., when it was stated that the shareholders had previously met and passed the usual resolution for the voluntary liquidation of the company, with Mr. Parkin S. Booth as liquidator. The statement of affairs showed ranking liabilities of £1,862 13s. 6d., of which £1,662 13s. 6d. was due to the trade and £200 to cash creditors. In addition there were contingent liabilities of £90 17s. 11d., which were not expected to rank. After allowing £30 for preferential claims the net assets were £776 9s. 2d., or a deficiency, so far as the creditors were concerned, of £1,086 4s. 4d. The company, it was reported, was registered on January 8 of the present year and took over an existing business. There appeared to have been no contract for sale, and it had not been possible to ascertain the precise details of the assets and liabilities, but it was estimated that the position at the time was about square. The company had a nominal capital of £2,000. The issued capital was only £4. From the details available it appeared that since the company was formed the purchases had been £1,809, with sales of £3,422. The premises were held on a lease for seven years from January 1936, at an exclusive rental of £375 per annum. Resolutions were passed confirming the voluntary liquidation of the company with Mr. Booth as liquidator. A committee was also elected.

Proprietary Articles Trade Association

Council Meeting

THE quarterly meeting of the Proprietary Articles Trade Association Council was held on July 9, the president (Mr. A. T. Hall) in the chair. The president, on behalf of the Council, congratulated Mr. Marns on his election to the presidency and Mr. Simmons on his election to the vice-presidency of the Pharmaceutical Society. Mr. Marns, on behalf of himself and of Mr. Simmons, who was unable to be present, suitably acknowledged the president's remarks.

CHEMISTS' FRIENDS SCHEME

The Council, while regretting that the proposals for reaching an agreement (as set out in the Association's letter to Mr. Mallinson, dated May 6) have not proved acceptable to the National Pharmaceutical Union, endorsed the Executive Committee's decision that, in the circumstances, the P.A.T.A. is not, for the present, called upon to intervene further in the matter.

SUPPLIES TO STAFF ORGANISATIONS

In view of the prevalent and widespread breaches of retail price conditions arising from the supply of P.A.T.A. goods to members of staff buying organisations, it was resolved by a unanimous vote of the Council that Rules 44 (vi) and 45 (vii) be amended to read as follows:—

Rule 44 (vi): "A wholesaler shall not sell any articles included on the Protected List of the Association to staff buying organisations in banks, insurance offices, telephone exchanges, Government, municipal or council offices, or similar organisations, and shall be permitted to supply only customers with whom the wholesaler has trading relations or a contra account, and those who have been specifically approved by the Association."

Rule 45 (vii): "A manufacturer shall not sell any articles included on the Protected List of the Association to staff buying organisations in banks, insurance offices, telephone exchanges, Government, municipal or council offices, or similar organisations, and shall be permitted to supply only customers with whom the manufacturer has trading relations or a contra account, and those who have been specifically approved by the Association."

MEDICINE-STAMP DUTY

The Council considered the announcement by the Chancellor of the Exchequer that a Select Committee was to be appointed to deal with the question of medicine-stamp duty. It was decided that as the views of the constituent sections of the Association (manufacturers, wholesalers and retailers) were likely to be divergent, and would doubtless be submitted to the Committee through representatives of their respective organisations, it would be inadvisable for the P.A.T.A., as an association, to submit to the Committee any representations on the subject.

PRICE-CUTTING IN THE LONDON AREA

The Executive Committee reported that the price-cutting position in the Metropolitan area had been and was still a source of concern. The Committee stated that they were fully acquainted with the special and difficult conditions which had to be contended with in the London area, and were familiar with the almost innumerable subterfuges, ruses and sometimes illegal methods adopted by price cutters or their agents to obtain supplies. They were also fully acquainted with the counter-activities which the Association's staff, in co-operation with manufacturers and wholesalers, had adopted to deal with the price-cutting evil. The Committee were satisfied that the Association's efforts to deal with price cutting were being pursued energetically and extended as occasion required to meet existing conditions. They reported that during the past three months the source of supply in connexion with more than 500 purchases made from price cutters in different districts had been traced. The Association's officers have had to deal with renewed and intensified efforts by the cutters to obtain goods through the export trade. It was also regrettable that in several instances retail chemists had been found to be sources of supply to cutters. The Council approved the Committee's report.

The secretaries' report on the Association's price-maintenance work throughout the country was received and approved.

New Zealand Notes

A SULPHURIC acid plant, claimed to be the most modern in the southern hemisphere, is being erected at Westfield by Kempthorne, Prosser & Co.'s New Zealand Drug Company, Ltd. It is hoped that, with existing works, the new plant will make it possible to cope with the Dominion's greatly increased demand for fertilisers, which now exceeds 300,000 tons annually. The capacity of the Westfield works in superphosphate will be 80,000 to 85,000 tons per annum.

THE annual report of the New Zealand Pharmaceutical Society for 1935 mentions that subscriptions paid by members are less than one-half the lowest in Australia and less than one-third those of the Pharmaceutical Society of Great Britain. Two members who had completed a series of labels of uniform and attractive design to meet the requirements of the Poisons Act which came into effect on April 1, 1935, were warmly thanked for their efforts. The following were appointed members of a British Pharmacopœia Revision Committee: Mr. Pryor, Wellington; Mr. Hounsell, Auckland; Dr. McKibbin, N.Z. Health Department; Messrs. Seymour & Wilkinson, Dunedin. At the most recent examinations of the Society, results were as follows: Botany and Chemistry, 93 sat, 42 passed; Materia Medica and Pharmacy, 66 sat, 29 passed. A new syllabus is shortly to be introduced embodying recommendations that will bring the examination more closely into line with the requirements of countries with which New Zealand has reciprocity agreements.

Committee on Company Pharmacy

THE Industries and Commerce Committee of the New Zealand House of Representatives, the sittings of which were reported in our issue of July 11 (p. 60), has recommended to the Government that it is desirable to restrict the activities of Boots, Ltd., in that country. The recommendation also suggests that those engaged in pharmacy in the Dominion be given six months to set their house in order so that they may give a cheaper and better service to the community. The principal recommendations of the Committee are:—

(1) That the organisation of chemists' services be regulated by licence under Government control.

(2) That the operation of large-scale pharmacy companies in New Zealand be not extended for a period of six months, in order to enable existing chemists collectively to organise and plan their operations with the object of reducing the present scale of prices to the consumer while at the same time providing an adequate payment for services rendered.

(3) That on the expiry of the specified period the position be reviewed by the Government, and should it be proved that existing chemists have not organised so as to adjust prices satisfactorily licences may be issued to such companies and persons as may be determined by the Government.

The Committee also recommended to the Government that it should investigate the possibility of establishing a national pharmacy service.

"There is probably a good deal of room for improvement in the methods of business of chemists," stated the Minister of Industries and Commerce, the Hon. D. G. Sullivan, referring to wholesale and retail houses in New Zealand. Evidence before the Committee tended to prove, it was stated, that there was a considerable discrepancy between prices charged by Messrs. Boots and those of private chemists, and that the latter prices were to a considerable extent an unnecessarily heavy burden owing to overhead costs. Referring to the widespread opinion that chemists charge unduly high prices, the Minister said:—"It is strenuously denied by the chemists or their witnesses that there is overcharging in New Zealand; but they have failed to produce itemised costs which would have enabled a clear view to be obtained of the position. They have the opportunity now to see what they can do to remedy the position."

"I have no doubt," commented a prominent member of the pharmaceutical profession in Auckland, "that the object of recommending that chemists be licensed under Government regulation is to prevent the starting of chain chemists' shops in districts already served adequately by present establishments, and by unfair competition speedily eliminating the small man's business. As such the profession will welcome a certain measure of control."

Natural Petroleum in Great Britain

THE extent to which natural petroleum and hydrocarbon gases have existed in this country is revealed in a monograph which appears in the current issue of the "Bulletin of the Imperial Institute." As early as 1667 gas from a spring near Wigan was collected and successfully burned. Petroleum was found exuding from piassic limestone near Bristol in the year 1811, and in 1829 a well near Shepton Mallet, Somersetshire, yielded several barrels of light-coloured oil which flowed into the water-well supplying an isolated dwelling house. A tar spring at Coalport yielded 1,000 gallons of oil a week for a time. A most important accidental discovery of petroleum was that at Riddings Pit, Alfreton, Derbyshire, when a stream of oil was found flowing into the top of a coal working. For more than a year from seven to ten barrels per day were collected from this source and sent to James Young's refinery, where burning oil, lubricating oil and paraffin wax were separated. In Yorkshire, the roof of the Parkgate seam at Manvers Main Colliery near Rotherham yielded in three days (1902) about 7,800 gallons of greenish black oil which, on standing, set to the consistency of soft paraffin. Brine accompanied this oil, which very soon spent itself, leaving only oozes. In Nottinghamshire, Lancashire, Cumberland, Durham and South Wales there has been no particularly valuable output except at Kelham, near Newark, where a test boring for coal penetrated a loose brownish sandstone fifteen feet thick at a depth of 2,452 feet. Oil flowed regularly during the eleven months the hole remained open. The yield was five to six gallons per day. Intensive search for oil commenced in 1918 when Lord Cowdray offered the free services of his geological staff for oil exploration in Great Britain on the understanding that indiscriminate drilling would be prevented by legislation. The Government accepted the offer and voted £1,000,000 to meet the cost; the firm carried out the work of surveying and drilling, sites for boring being selected by American geologists. In November 1918 the Petroleum (Production) Act was passed, which prohibited drilling for oil except under licence.

Requisite Conditions

Conditions requisite for the formation of a petroleum reservoir consist of a porous stratum, or oil sand, covered by an impervious capping of clay or shale, and where these occur an anticlinal features (i.e., a "ridge" formed by two strata leaning against each other) is needed to induce local accumulation of oil. In Derbyshire and Staffordshire the carboniferous limestone was considered to be a likely reservoir because of its porosity and the capping afforded by the shales of the upper carboniferous limestone series and those of the coal measures. By the end of June 1919, seven boreholes had been drilled in Derbyshire, two in North Staffordshire and two in Scotland. The average depth of these borings amounted to some 3,000 feet, but only in the Hardstoft Boring, Derbyshire, was oil encountered in any measurable daily amount. At 3,075 feet it began producing seven barrels or a ton of oil a day; the well was giving twenty-one barrels in 1922, and since that date the yield has steadily declined to an almost negligible figure. In Scotland a boring nine miles south-east of Edinburgh struck natural gas at 724 feet. This was cased off and drilling continued until at 1,080 feet oil was struck, but further drilling failed to increase production. In all, during two months only seven tons of oil were obtained from the well. Government drilling came to an end in 1921, and in March 1923 the Hardstoft No. 1 well was handed over to the Duke of Devonshire, owner of the mineral rights. During the time it was in the hands of the Government it had produced 1,088 tons of oil. It was decided to drill a second well on a site 600 feet west of No. 1, but only a trace of oil was found. In Derbyshire nine wells of a total footage of 33,031 feet were drilled against a production of nearly 3,000 tons of oil. A bituminous shale in the Kimmeridge clay of S.E. England has been used locally as a fuel ("Blackstone" in Dorset). The "Blackstone" bed of Kimmeridge clay is anticlinal in form and should favour the accumulation of petroleum, but neither this nor natural gas has been observed there. The oil-shales of this formation have been exploited for distillation purposes by several companies, but no attempt, so far as is known, has been made to locate petroleum. Perhaps below

this clay stratum investigators may be expecting oil accumulations in the lower measures. Natural gas has been observed in places near Heathfield in Sussex, issuing apparently from the Wadhurst clay, the Ashdown sands, or the marls and shales of the Purbeck beds. The Natural Gas Fields of England, Ltd., 1902, made several borings around Heathfield, which provided gas for the lighting of that village. The investigation of petroleum possibilities which ceased in 1921 has again become popular, and a subsidiary of the Anglo-Iranian Petroleum Co., under the title of the D'Arcy Exploration Co., has taken licences to drill for oil in extensive areas in S. and S.E. England, the Isle of Wight, Yorkshire, Lincolnshire, Nottinghamshire, Leicestershire, Cambridgeshire, Norfolk and in the Lothians in Scotland. The first site chosen is at Paulsgrove, north of Portsmouth Harbour, where permission to bore has been granted by the local authorities and a drilling plant capable of working to a depth of 10,000 feet is being used. Another company started drilling operations in 1931 at Worth, Sussex. Recent activities indicate that in spite of the meagre results hitherto attained in the search for oil in Great Britain, the scientific evidence available is sufficient to warrant further test drilling, as well as geological and geophysical investigations. The Petroleum (Production) Act of 1934 and the Regulations issued in connexion therewith provide that the ownership of any naturally occurring petroleum in Great Britain is vested in the Crown. Auxiliary rights may also be granted under the Mines (Working Facilities and Support) Act, 1923, by the Railway and Canal Commission, should it be satisfied that these rights cannot be obtained on reasonable terms by voluntary arrangement with the landowner and that it is in the national interests to grant the rights. Licences are of two types—prospecting and mining. Prospecting licences are granted for three years and may be renewed for two further periods of twelve months each. Mining licences are for a first term of fifty years with the option of renewal for a further period of twenty-five years. The grant of a licence depends on the possession of adequate financial backing and technical resources. Regulations also cover the observance of good drilling technique, avoidance of damage to local amenities and provisions against competitive off-setting.

Netherlands Tercentenary

DUTCH pharmacists are celebrating this year the three hundredth anniversary of the coming into force of the "Pharmacopœia Amstelredamensis." Issued in 1636, this was made obligatory for all physicians and pharmacists throughout the country. It put an end to the confusion then existing in Holland regarding the prescribing of medicaments, and made practitioners independent of foreign formularies. Prior to that date there had been no uniformity among the many formularies in use, the most generally used and esteemed among which was the "Dispensatorium" of Valerius Cordus. Although the names of the collaborators are not mentioned in the work itself, contemporary documents amply prove that the Amsterdam Pharmacopœia, approved by the College of Physicians and Pharmacists, was essentially the work of Nicholas Tulp. The preface, *inter alia*, draws the attention of the authorities to the advantages to public health of this work of unification, due to the collaboration of physicians and pharmacists. As was usual with scientific works of that period, the first Netherlands Pharmacopœia was printed entirely in Latin, and the Latin used was by no means dog-Latin.

TESTING SEED VIABILITY.—A test for the viability of seeds has been devised by Dr. Kozo Hasegawa of Asakawa, Tokio. The method ("Journal of Japanese Botany," 8, 1) is based upon the colour reaction given with a 1 per cent. solution of sodium tellurate. This causes a darkening of living embryonic tissue on soaking at 16° C. for forty-eight hours, after which the colour remains constant. It is claimed that the depth and extent of the coloration is correlated with the vitality of the embryo, and that this is not damaged in any way by the treatment.

Scottish Health Services Report

THE report of the Committee on Scottish Health Services set up by the Secretary of State for Scotland in 1933 "to review the existing health services of Scotland in the light of modern conditions and knowledge and to make recommendations on any changes in policy and organisation that may be considered necessary for the promotion of efficiency and economy" has been issued (Cmd. 5204, 6s.) by H.M. Stationery Office. The report, with its six appendices, extends to 404 pages, and examines the various aspects of the health services of Scotland with exemplary thoroughness. Its main divisions are:—(1) The Problem of National Health; (2) Heredity, Nutrition, Education and Environment; (3) Medical and Allied Services; (4) Finance and Administration. Before we turn to the medical and allied services, with which our readers are chiefly concerned, we may quote the conclusions given at the end of a comprehensive survey of the health of the people of Scotland:—

A General Survey

"(1) The saving of life at all ages and the increased span of life have been accompanied by greater freedom from many causes of sickness, ill-health and physical defect and by concurrent gain in the general health of the people. Urban communities have, in a special degree, shared in this improvement.

"(2) Although the general level of health is higher than it was, there remains a large mass of sickness and defects of various kinds as revealed by the medical evidence, and more specifically by the records of medical inspection of school children, the sickness returns for the insured population, and the army recruiting figures. In an investigation in Glasgow about 16 per cent. of school children were found to have ailments that could not be classified as minor; in the course of a year over 20 per cent. of the insured population are incapacitated for work, and the average time lost among the insured population is more than ten days per annum; of the men applying for enlistment in the army and presented for medical examination, 38 per cent. are rejected on medical grounds. There is, in addition, much subnormal health and many minor defects that, although not recorded in any tables, represent diminished reserve and capacity for living and may be the precursors of manifest disease. The vital statistics of Scotland are disquietingly less favourable than those of England and Wales and several other European countries.

"(3) Significant changes have taken place in recent years, both in the causes of death and in the causes of sickness. In some causes, such as enteric fever, tuberculosis, the diarrhoeal diseases of children, the fall in the death rates has been accompanied by a reduced incidence of sickness; in other causes, such as measles, whooping-cough, pneumonia and bronchitis, diphtheria, scarlet fever, although the death rates have fallen and the diseases are less severe, the volume of sickness remains high and varies widely from year to year. These infections are the source of a considerable proportion of the ailments and defects that are found among children and that may persist into later life. The pre-school period of life is the age of greatest susceptibility.

"(4) An important change in the general picture of disease is the rise in the number of deaths from cancer and from what may be termed the diseases of degeneration, those affecting the heart, blood vessels, kidneys and other organs. Although there is evidence of a real rise in the cancer rate, the larger number of deaths attributed to this general group is chiefly due to improved diagnosis and the increasing longevity of the population. Affections to which elderly people are peculiarly subject, such as cancer, bronchitis and pneumonia, degenerative circulatory and mental conditions, have now become more important and are raising difficult problems of hospital and institutional provision.

"(5) Many of the conditions that cause sickness in the adult population do not figure among the causes of death, and do not come within the direct purview of the local health authorities at present. Studies of morbidity among insured persons show that the chief causes of illness and loss of working capacity in the industrial population are those referable to the respiratory system, such as the common cold, influenza, catarrhal affections of the throat and nose, and tonsillitis; these are followed by gastritis, the various manifestations of

rheumatism, injuries, inflammation of the skin and septic conditions, and by a vague and ill-defined group of affections of the heart and nervous system into which a psychoneurotic element enters or in which mental symptoms predominate.

"(6) Many of these illnesses enter upon a chronic stage or give rise to more or less long continued ill health. The duration of incapacity and consequent loss of working time are appreciably affected by the inadequacy of organised facilities for special diagnosis and treatment."

Suggested Extension of Medical Services

The conclusions printed at the end of Chapter 13, summing up a discussion occupying twenty pages, are as follows:—

"(1) As part of a policy for the promotion of the health of the people it is necessary to secure that, as far as possible, all members of the community should have available the services of a general medical practitioner.

"(2) There is evidence from all quarters in favour of the extension of general medical services. At present large numbers of the people are unable to secure the services of a general medical practitioner. This inadequacy of general medical attendance, especially for women and children, adds to the cost, interferes with the efficiency and prevents the sound development of some of the medical services provided by statute. The local authorities, in this situation, are tending to develop their statutory services so as to fill the gap; this tendency, if left alone, is bound to gather force and to influence, if not determine, the future medical organisation of the country. On grounds of administrative expediency, therefore, as well as on broad grounds of national policy, it has become imperative for the State to frame a policy to meet the medical needs of at least the dependants of insured persons and others in similar economic circumstances, and to lay down the lines along which the medical services should develop.

"(3) The statutory provision for general medical attendance should be extended to include dependants of insured persons and, so far as practicable, others in similar economic circumstances, and that all statutory provision for general medical attendance should be co-ordinated.

"(4) This co-ordinated service should be based, as far as possible, on the family doctor, who should act as health adviser and in liaison between the homes of the people and the statutory health services. The basis of employment of the general practitioner should be, as in the national health insurance scheme at present, by contract for part-time services remunerated by capitation fees. The principle of free choice of doctor, as in the national health insurance scheme, should be preserved.

"(5) The training of the general practitioner should be such as to develop the preventive outlook and to equip him fully for the role of health adviser."

National Health Insurance Service

The treatment of the National Health Insurance Service in the report is relatively brief. The Committee gives quotations, apparently with approval, from the report of the Royal Commission on National Health Insurance which completed its work in 1926, and adds:—

"The evidence submitted to us from all quarters points to the success of the medical service under the National Health Insurance scheme. It will be observed that our main recommendations . . . for the future development of the domiciliary medical services are based largely on the insurance service. That service brought to a large section of the population the advice and assistance at call of the general practitioner. We find on a consideration of the medical services that the most urgent need in Scotland, both on broad grounds of policy in the interest of the health of the people, and as a matter of administrative expediency, is for an extension of this service to other classes who are in need. We have recommended this . . . , and have recommended also that this extension should be based on the same principles as those of the insurance scheme—freedom of the patient to select and change his doctor, engagement of the doctor in private practice on a contract to attend to the health of the persons who select him as their general medical attendant. From our general conception of the rôle of the general practitioner in the medical

services, we place more emphasis than has been usual in the immediate past on the function of the general practitioner as adviser in health as well as in sickness. This seems to us a natural development of a system that remunerates the doctor on a flat rate whether his patients are sick or well. . . .

"Our recommendations also are designed, as the Royal Commission hoped would be found practicable ultimately, to co-ordinate the general practitioner service under the National Health Insurance scheme with the other medical services and to establish the general practitioner as an integral part of the health organisation of the country. This, in our view, will remedy one of the principal weaknesses of the medical services and seems to us to be essential for the proper development of the health policy of the nation. Our proposals for co-operation between the general medical practitioner on the one hand, and on the other, the hospitals, clinics, etc., that are provided by the local authorities where the need for them exists, follow from this general policy. We contemplate that from these latter proposals . . . there will develop, by action of the health authorities, in supplement of the facilities provided by other agencies, a complete provision of the necessary specialist aids for diagnosis and treatment. This we regard as the sound line of development; and we think that, sooner or later, the additional treatment benefits now provided as part of the insurance scheme will be assimilated to, and become part of, the publicly organised medical and allied services. These benefits are devised to meet a widely felt need; on the whole, they have been successful and appreciated; but, as the Royal Commission indicated, they suffer from the defects inherent in the fact that they depend on the uncertain and unevenly distributed surpluses of approved societies. Their immediate future depends on the finance of the whole National Health Insurance scheme—a subject that is outside our terms of reference. . . ."

The Committee decided that it was unnecessary to submit any recommendations on this service. Under the heading "Pharmacy," however, the following remarks are made:—

" . . . we have referred briefly to the arrangements for supervision of the supply of drugs to insured persons. These arrangements have been very successful. The cost of supplying drugs to insured persons amounts to about £180,000, or 1s. 11½d. per insured person. This compares favourably with the cost—2s. 11d. per head—in England and Wales, but it is still a high figure, and the general view is that, without in any way interfering with proper treatment, a considerable saving could be effected. Even a small saving on every prescription under the present national health insurance scheme would represent a substantial sum in the aggregate (one penny per insurance prescription, for example, would yield the sum of approximately £10,000). The proposed extension of general medical service to the dependants of insured persons and others adds to the possibilities of saving.

"Some years ago Glasgow Corporation instituted a municipal service for the supply of drugs and medicines for their existing medical work. This service was amplified to meet their added responsibilities under the Local Government (Scotland) Act, 1929, including general and mental hospitals and the outdoor medical service. In evidence it was stated that, under the municipal scheme, there had been effected a saving in one year of over £14,000 on scheduled items alone, these forming approximately two-thirds of the total purchases. We do not, however, consider that such a direct municipal service is practicable generally. Our conclusions and recommendations are as follows:—

"(1) The existing arrangements under the national health insurance scheme should be applied to the proposed extension of general practitioner services to dependants of insured persons and others. For other services, we think that local authorities should be free to make their own arrangements. It would be an advantage, however, if the present insurance machinery for the supply and pricing of drugs were used as widely as possible by local authorities in other fields.

"(2) We consider that the work undertaken by the Department of Health for Scotland to improve prescribing by doctors has fully justified itself and should be continued.

"(3) We endorse the view, submitted in evidence, that, except in rural areas where the doctor requires to do his own dispensing, the services of fully qualified pharmacists should be used in the dispensing of drugs."

Among the appendices will be found the reservations of certain members of the Committee on statements in the text of the report.

Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts.

ENGLAND AND WALES

Blackpool.—Prescriptions for the year ended March 31 numbered 189,901. Insured persons twenty-one years ago were under 18,000; the present figure is 43,611. The total sum distributed to chemists was £6,136 5s. The average cost of prescriptions was slightly in excess of the average for the area, but in frequency and average cost Blackpool figures were lower.

Croydon.—At a meeting of the Insurance Committee on July 3 the Pharmaceutical Service Subcommittee reported on a test sample of medicine dispensed by a lady chemist. It was stated that the chemist had expressed regret for the error, and explained that the shortage in dilute hydrochloric acid was due to miscalculation, she having calculated for 12 doses instead of 12 oz. In view of the small deficiency in liq. strych. hyd. the Subcommittee confined its consideration to the question of the discrepancy in acid. hydrochlor. dil., which resulted in approximately half the prescribed quantity being dispensed. While the Subcommittee was prepared to accept the explanation, it recommended that the chemist be censured.

Montgomeryshire.—During the past quarter three prescriptions had been analysed. In the case of two the analyses showed the prescriptions to be "almost mathematically correct"; in the third case there was an excess of nearly 50 per cent. of one ingredient, and it was decided that the chemist should be asked for an explanation.

Staffordshire.—The Medical Service Subcommittee presented a report at a recent meeting of the Staffordshire Insurance Committee. In a letter to the Committee the applicant stated that the doctor certified his case as acute and advised special treatment, to consist of the liver extract and tablets, which he (the insured person) instructed the doctor to obtain. Latterly he found he could obtain them from another source at a considerable saving. He asked the Committee for "some assistance for past and present expenses in the matter." An inquiry was held by the Subcommittee, at which the practitioner and the insured person were present, and it transpired that the latter instructed the doctor to obtain the medicine and charge him with the cost £1 17s. 6d. The doctor admitted he acted foolishly in purchasing drugs for, and accepting payment from, the patient. The latter told the Committee that he had a strong objection to "panel medicine," which he had been inclined to regard as "dish-wash," but recently he had been convinced by friends that he could obtain everything necessary in the way of drugs through medical benefit, and he began to accept insurance prescriptions from the doctor. After holding that the doctor had failed to comply with the obligations imposed upon him by the terms of the service, the Committee stated that it was open to question whether the doctor did make a sufficiently reasonable effort to remove from the insured person's mind the erroneous impression that the proper medicines could not be obtained under insurance arrangements. In conclusion the Committee recommended that the doctor should be warned of the necessity of strict compliance in the future with his undertakings to the Committee.

Surrey.—The Pharmaceutical Committee met on July 1, Mr. W. Morrell presiding. Messrs. Mather and Slade were not present, the former owing to indisposition and the latter to a bereavement in the family. Mr. P. Sparks was elected *Chairman* for the ensuing year, and Mr. E. L. Slade *Vice-Chairman*. The chairman, vice-chairman, Mr. C. B. Harrison and Mr. W. Morrell, were appointed on the Finance Subcommittee. The following representatives were elected to serve on the Pharmaceutical Service Subcommittee and the Dispensing Subcommittee of the Insurance Committee: Messrs. W. H. Fowler, W. S. Howells and P. Sparks as principal members, and Messrs. F. Cherry, C. B. Harrison and H. G. Tibbett as deputies; Messrs. C. P. Chesworth and G. S. Powell. The report on the review of shops for the year 1935-36, presented by the secretary, set out that in the actual county area there were 399 shops on the panel, an increase of eighteen over the previous year.

Fluorescence Microscopy in Drug Examination

By Dr. Julius Grant, M.Sc., F.I.C.

Certain phenomena of fluorescence and their bearing on analytical methods have been previously described in our columns; the author here discusses their application in microscopical analyses

IN an earlier issue (*C. & D.*, 1932, 1, 421) the present writer introduced the subject of fluorescence analysis with special reference to the requirements of the chemist and druggist. It may now safely be stated that this particular method has come to stay; its usefulness and convenience have been justified in many directions and, as reference to the literature will show, the range of its applications is increasing rapidly. One of the ramifications of the subject—fluorescence microscopy—is of special interest in connexion with drugs, although up to the present the advantages it offers do not appear to have been fully realised. The method involves examination of an object under the microscope, using ultra-violet light instead of ordinary daylight or lamp light as the source of illumination. Under these circumstances many substances and microscopic structures (e.g. of plants, etc.) become visible which normally cannot be seen. Impregnating the preparation with fluorescent substances (in a manner similar to that used with ordinary microscope stains) enables selective secondary fluorescence effects to be obtained which are themselves a valuable supplement to the ordinary methods of observation.

Apparatus and Technique

Little apparatus is required beyond the normal resources of a laboratory. A source of ultra-violet light and a good microscope are, of course, essential, and it may be mentioned that the arc type (e.g. the carbon arc) is preferable to the usual type of mercury vapour lamp, even if its radiation is not quite so rich in ultra-violet light, because it is a "point," not an "area," source. The method may be applied by using either transmitted or incident light; the latter is by far the simpler and suffices for most purposes. The object is placed on the microscope stage and is illuminated from above with ultra-violet light from which visible rays have been removed by Wood's glass. On account of the heat developed by the carbon arc and the proximity of the lamp to the microscope, it is also desirable to insert a cell-filter containing a solution of copper sulphate, to absorb the heat-producing rays. If some optical method of obtaining vertical illumination is available the results are better and are even more conveniently obtained. The writer has found a device such as the Leitz Ultrapak to be specially suitable; this apparatus also enables the object to be viewed in either daylight or artificial light merely by pressing or releasing a cable shutter-control. It is desirable to insert a filter in the eyepiece to absorb any reflected ultra-violet light and so protect the eye, but, apart from this, with possibly a quartz instead of a glass cover-slip, there are no special points about the apparatus. If, however, transmitted light is used, the reflectors, lenses, etc., in the optical path between the source of light and the preparation must be made of material which does not absorb the ultra-violet radiation. Thus, after removal of visible light and heat rays in the usual way, as described above, radiation is reflected into the microscope by means of a silvered mirror, followed by a quartz condenser, and the preparation should be mounted on a quartz slide. It is, however, only visible light, from the fluorescence, that is of account beyond the specimen, and no special precautions or apparatus are necessary, although here again a filter to protect the eye from stray ultra-violet light is desirable.

Mounting Agents

A few more details may be appended as a matter of interest. Fluorescent embedding and mounting agents should, in general, be avoided, although in certain cases, and especially when the preparation is normally fluorescent, impregnation with a sub-

stance which fluoresces brilliantly, such as paraffin wax, throws the detail of the structure into brilliant contrast. Menthol and glycerin are useful mounting agents, but chloroform may also be used; glycerin may replace cedar-wood oil for oil-immersion lenses. Fluorescent lens-cements (such as some varieties of Canada balsam) are also apt to produce disturbing effects if ultra-violet light reaches them. A speck of fluorescent material on the microscope slide is a great aid to focusing. In conclusion, a word of warning is necessary that prolonged exposure to ultra-violet light, or a variation in pH value, may sometimes change the appearance of the fluorescence (whether primary or secondary). When the method is being used for the purposes of diagnosis the conditions should be carefully standardised.

Applications to Drugs

Much of the pioneer work on the application of fluorescence microscopy to drugs in powder form is due to R. Wasicky ("Pharm. Post"), who was able to deal qualitatively, and sometimes even quantitatively, with mixtures of two or more substances. Thus, grains of powdered gentian have a bluish-white colour and are easily distinguished from those of *Rumex*, which is sometimes used as an adulterant; the latter, if present, is easily recognised by its greenish-yellow appearance.

The applications of the method of direct or "primary" fluorescence to the powdered rhubarbs are well known, but the microscopical modification is less familiar. If the specimen is mounted in a cold solution of borax in glycerin, the cells containing the active glycoside (oxymethylantraquinone) are plainly visible, owing to the reddish-yellow colour resulting; this turns to green if the preparation is gently heated. Further investigations on rhubarbs are due to J. Maheu and to P. Bretin and A. Leulier ("Bulletin of Scientific Pharmacy"), while a paper on the detection of the rhapontic variety was contributed by Sydney K. Crews to the British Pharmaceutical Conference, 1936. *Rheum rhaponticum* can be distinguished by its violet colour, so little as 1 per cent. being detectable, and *Rheum emodi* appears red-brown. Plant substances containing natural oils, resins, balsams, etc., also lend themselves to the method, because they are frequently fluorescent and, if not, can often be stained. Among the suitable reagents for this purpose are aurophosphine, 1:50,000 (blue fluorescence), rosol red (yellow-green), thioflavine (blue), and chelidonium extract (blue). These reagents may also be used to render other plant structures visible. The natural bright blue fluorescence of Peru balsam is particularly striking, and the portions of plant containing chlorophyll are of course easily recognisable owing to the red fluorescence of this substance.

Other Applications

Reference may be made to the pioneer work of H. Wislicenus ("Zeitung Angewandten Chemie") on woods, and to that of O. Eichler ("Cellulosechemie") for more recent applications of the fluorescence methods. The latter applies the method to throw further light, both literally and figuratively, on the process of lignification, and on the formation of amyloids and collose. Mention should also be made of the ease with which mineral greases in ointments and mineral oils in other oils are detectable by reason of their vivid bluish-white fluorescence. The method offers great scope where mixture has been effected so intimately that a microscopical examination of some kind is essential.

Similar remarks apply to homœopathic triturates, especially those containing salicylates, zinc oxide, quinine and calomel, because these substances have a characteristic fluorescence. Very small proportions are detectable. Investigations



Illustration by courtesy of Chapman & Hall, Ltd.

FLUORESCENCES OF POWDERED RHUBARBS

1. *Rheum palmatum* (brown, white striae).
2. High-dried flats (purple, with patches of yellow and white).
3. Rough rounds (similar to high-dried but more intense).
4. *Rheum raphaniticum* (similar, but less intense).
5. Canton (purple to orange, with white veins).

may be carried out on the size and uniformity of the particles present. Thus H. Neugebauer ("Pharmazeutische Weekblad") noted that when lactose was present, the fluorescence increased with an increase in the degree of subdivision. Even if one of the constituents of a mixture whose homogeneity is under investigation is not fluorescent, this does not matter, because the substance may be intimately mixed in known proportion with an inert fluorescent substance. The distribution of the added fluorescent substance seen under the fluorescence microscope is then a guide to the distribution of the non-fluorescent substance associated with it. The method

under the fluorescence microscope.

Most seed-products are fluorescent or contain fluorescent constituents, whilst adulterating materials of a mineral character are frequently non-fluorescent, or present a different appearance. A great deal of work in this connexion has been carried out on the microscopical structures of spice and seeds, such as pepper, mustard, pimento, nutmeg, ginger, etc., mainly with the object of finding the location and quantity of the active principle or oil or resin in specimens obtained from different localities or processed in various ways. Here again the adoption of fluorescence tests is likely to increase.

has also been applied to examination of the distribution of fertilisers in agricultural work. One further possible application, according to the writer's preliminary experiments, appears to offer promising prospects. In determining the proportions of various starches by the method of Wallis, lycopodium powder is added in known quantities and the resulting mixture is compared under the ordinary microscope with a number of similar type mixtures of known compositions. It is now suggested that the lycopodium might profitably be replaced by a fluorescent substance, such as finely-powdered and sieved quinine sulphate, and observations made

Constitution of Sex Hormones

IN an article on the relationships of sex hormones, Professor L. Ruzicka ("Nature," No. 3,459, p. 260) points out that they have one common characteristic in being derived from cholesterol (I) by splitting off a part of the side chains and thereby containing a ring system of four carbon rings. The difference between the individual hormones depends upon which part of the side chain has been split off and also upon variation in hydrogen content. The oestrane group of female sex hormones (except progesterone) is characterised by having eighteen carbon atoms per molecule. The details of structure have been established by chemical reactions (except as regards steric arrangement, which is probably identical with that of cholesterol).

Estriol (II) is transformed into oestrone (III) by removal of water. Oestrins of commerce contain both these hormones, which exhibit the same qualitative action but differ quantitatively. Estradiol (IV) could be obtained from oestrone.

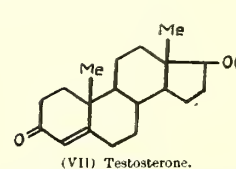
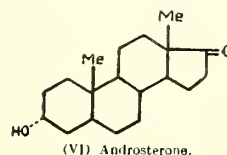
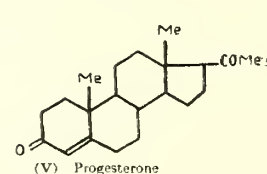
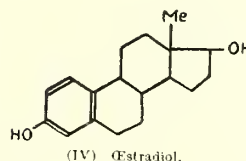
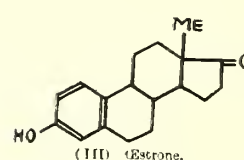
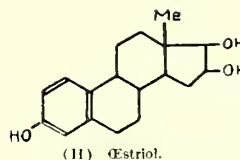
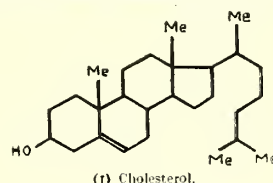
Progesterone has the formula (V) which was verified by synthesis with stigmasterol as a starting material. This possesses the complete corpus luteum hormone action, and progesterone is the only compound showing such specific action.

The male sex hormone androsterone (VI) has been prepared artificially from epicholesterol. Physiological investigation proved that androsterone was not identical with testicular male hormone. Artificial preparation of androstene-3-one-17-diol elucidated that this is identical with testicular hormone or testosterone (VII), all their properties being the same. Testosterone is 20-25 times more powerful than androsterone in its action on male sexual glands, its activity exceeding that of any other compound.

The phenolic ring is present unchanged in all the hormones of the oestrane group, which show the same qualitative action but differ quantitatively. The androstane group shows differences in chemical structure owing to variation in phenolic ring, but nevertheless possesses very similar physiological action.

The sex hormones afford one of the best examples in nature of producing contrary actions by alterations in detail of a fundamental principle. Male and female hormones are not specific to the sexes, and the fact that α , β -unsaturated ketonic compounds are responsible for male hormone action offers a plausible explanation of the origin of the sexual hormones of the oestrane (female) group from the androstane (male) group. An artificial substance, androstene-3, 17-diol (which has not

yet been detected naturally), exhibits both male and female activities. Androstene-3, 17-diol may be an intermediate product in formation of androstene and oestrone. The latter



requires the removal of methane. Estradiol, the most powerful female hormone, could be derived in the same manner from testosterone, the most powerful male hormone.

Trade Notes

NEW MACLEAN PRODUCT.—Macleans, Ltd., Great West Road, Brentford, Middlesex, have introduced Macleans peroxide tooth powder in blue and white tins to link up with their well-known colour scheme adopted for their peroxide tooth-paste. A display stand is sent free with every order. Further particulars are given in our advertisement pages.

ESS VIOTTO.—H. Bronnley & Co., Ltd., Acton Vale, London, W.3, are offering a new sales aid and display stand for Ess Viotto. The stand is suitable for counter or window display and will be sent free to chemists on application. Ess Viotto is issued in four sizes.



VITAMIN B₁.—The Hoffmann-La Roche Chemical Works, Ltd., 51 Bowes Road, London, N.13, have published a reprint from the May issue of the "Edinburgh Medical Journal" of the report on the parenteral administration of Vitamin B₁ in the treatment of polyneuritis and other conditions. They point out that Roche Vitamin B₁ ampoules contain 500 international units, and not 400 as stated in Dr. Russell's paper. The ampoules are issued in boxes of six 1 c.c. containers.

SCUROFORM DENTAL SOLUTION.—Pharmaceutical Specialities (May & Baker), Ltd., Dagenham, Essex, have recently issued a new product which consists of 10 per cent. butoform in glycerol-alcoholic solution. It acts as a local anæsthetic of the mucous membrane and is applied by means of cotton wool. It is issued in boxes of six 1 c.c. phials.

AMPULIQUES.—C. J. Hewlett & Son, Ltd., 35 to 42 Charlotte Street, London, E.C.2, have issued an illustrated brochure describing ampuliques sterilised injections. These are presented in separate glass containers of one dose. They are packed in boxes of 6, 12 and, in some cases, 25 containers. A complete list, together with prices, is included in the brochure.

CONFECTIONS FOR CHEMISTS.—Grips Laboratories, Ltd., Hambleton Mill, Accrington, are now producing medicated confections in large quantities at a new factory. Illustrated herewith are some of the attractive display containers for linseed, liquorice and chlorodyne lozenges, coltsfoot rock, Vitamacs, tonic creams and liquorice and menthol pellets. The principal ingredient of Vitamacs is Macleans stomach powder, and these sweets are intended for a person susceptible



to pains after eating. They are packed in 4-lb and 6-lb. jars and 4-lb. tins. The linseed, liquorice and chlorodyne lozenges are packed in transparent bags and are issued in three-dozen containers. Special plant has been installed in the new factory for large-scale production of linseed and menthol pellets. These are packed in containers of two dozen. Coltsfoot rock is also packed in transparent bags in containers of two dozen of the smaller size and one dozen of the larger. A full list of products will be sent on request.

A CLEVER ADVERTISING SCHEME.—Edward Hack, Ltd., 73-78 High Holborn, London, W.C.1, announce elsewhere in this issue an offer of their O'Desire Perfume in connexion with the appearance of a film entitled "Desire." Cinemas in various parts will display, but will not sell, the perfume, and chemists have an opportunity of linking up with an unusual form of propaganda. Inquiries for window display material is invited.

ATTRACTIVE DISPLAY STAND.—Illustrated herewith is a useful sales aid issued by W. J. Yvonne et Cie., Ltd., 291 Derby Road, Bootle, Liverpool, 20, to carry specimen packs of rouge, powder, lipstick, etc. The section of the stand carrying packs has a silver basis, which contrasts sharply with the black and white background of the upright section.



CHIROPODY.—The National School of Chiropractic, 133 Upper Street, London, N.1, inform us that over 1,500 patients receive treatment every week in the free foot clinics. There are thus ample opportunities for students to acquire a practical knowledge of this growing profession. A six months' day course is held, and an employment bureau helps the qualified student to find a suitable post or a practice. Details are given elsewhere in this issue.

BENZEDRINE TABLETS are distributed by Menley & James, Ltd., 64 Hatten Garden, London, E.C.1, for Smith, Kline & French Laboratories, owners of the trade mark Benzedrine. Each tablet contains 10 mg. (0.1543 gr.) of β -Phenylisopropylamine sulphate (isomyl sulphate). Benzedrine is stated to have a profound stimulating effect on the higher centres of the central nervous system. It relaxes smooth muscle of the gastrointestinal tract, and in the higher dose range produces a sustained rise in blood pressure. Investigations are in progress so that its further usefulness can be properly evaluated.

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary and Year-Book," 1936, p. 322.

(From "The Trade Marks Journal," July 1, 1936.)

- "ASTRA"; for photographic plates and films (1). By Ilford, Ltd., 23 Roden Street, Ilford, Essex. 568,944.
- "AGANOL"; for all goods (1). By I.G. Farbenindustrie A.-G., Grüneburgplatz, Frankfurt-on-Main, Germany. 568,440. (Associated.)
- "AGRIGANO"; for guano fertilisers (2). By P. Higgs & Co., Ltd., 137 High Street, Orpington, Kent. 567,051.
- "NUTRISAL"; for salts to assist germination of seeds (2). By British Cultivations, Ltd., 14 Regent Street, London, S.W.1. 567,786.
- "MEN-KOL" in oblong; for external preparation for rheumatism, etc. (3). By Hospital Products Corporation of England, Ltd., 30 Gerrard Street, London, W.1. 566,506.
- "PRYL"; for headache tablets (3). By J. S. Stewart, Adderstone Crescent, Newcastle-on-Tyne. 566,182.
- "NAVIGAN"; for medicinal chemicals (3). By Hoffmann-La-Roche Chemical Works, Ltd., 51 Bowes Road, Palmers Green, London, N.13. 567,045.
- "PHOSCO"; for medicated wine (3). By Strode Cosh & Penfold, 10 Broadmead, Bristol. 567,229. (Associated.)
- "NATEX"; for medicinal chemicals (3). By Modern Health Products, Ltd., 38 Langham Street, London, W.1. 567,771. (Associated.)
- "LOHL"; for all goods, excluding soap (3). By J. Bell, Hills & Lucas, Ltd., 14 Tower Bridge Road, London, S.E.1. 567,856.
- "VITAGEN"; for nerve preparations (3). By F. E. S. Clarke, 23 Cambrian Road, Newport, Monmouth. B568,324.
- "ZAIMUS"; for medicated herb preparation (3). By G. Poulton, 1 Great James Street, London, W.C.1. 568,620.

Births

Notices for insertion in this column must be properly authenticated.

FORBES.—At Fernbrae, Dundee, on July 10, Christian, wife of W. B. Forbes, M.P.S., 10 Pitcullen Terrace, Perth, of a son.

GOODWIN.—At Durban, South Africa, on June 28, Marjorie (only daughter of Mr. A. T. Cussons, governing director of Cussons, Sons & Co., Ltd., Kersal Vale, Manchester), the wife of H. Goodwin, of a son.

Marriages

HAY—BRODERICK.—At Quex Road Church, London, N.W.6, on June 27, Frederick William Hay, chemist and druggist, to Kathleen Broderick.

TRUSCOTT—MARTIN.—At Stoke Damerel Parish Church, Devonport, on July 8, by the Rev. Preb. Walters, M.A., assisted by the Rev. Thomas Iles, of Morice Square Baptist Church, Francis E. Truscott to Beatrice (Trixie) Martin, M.P.S., both of Plymouth.

Deaths

BURN.—On June 9, Mr. William Bertram Burn, chemist and druggist, Monkseaton, aged fifty-eight.

GALL.—At 85 Arundel Street, Portsmouth, on July 9, Mr. Frederic Gall, chemist and druggist, aged eighty-nine. Mr. Gall was born at Ripley, where his father was a doctor. He was apprenticed at Malden, gained further experience at leading pharmacies in London and elsewhere, and went to Portsmouth in 1883 to take over from Mr. Read the Arundel Street business. The premises, built during the Crimean War, have always been used as a chemist's shop. Mr. Gall used to say that the biggest change he had seen during his fifty years behind the counter in Arundel Street was in the matter of what he called "personal luxuries." The public also seemed to prefer proprietary medicines, he commented, to the drugs which were used for so many years. Up to a year or two ago he was still actively engaged in his work. Mr. Gall leaves a widow and two sons, one of whom, Mr. William C. Gall, chemist and druggist, is continuing the business.

SCOTT.—At Saffron Walden, on July 11, Mr. Walter Harrison Scott, M.P.S., Market Hill, aged fifty-eight. Mr. Scott carried on business at Saffron Walden for nearly forty years in succession to his father-in-law, the late Alderman John Gilling, Ph.C. He was a past-president of the Rotary Club and was actively associated with the Literary and Scientific Institution. An amateur horticulturist, he was a successful exhibitor at local shows and adorned his shop with flowers.

SHILLCOCK.—At his residence, 37 Hammelton Road, Bromley, Kent, on July 7, suddenly, Mr. Sidney Shillcock, chemist and druggist, aged seventy-three. Mr. Shillcock was the younger son of Mr. Joseph Bradley Shillcock, who opened a chemist's business in Bromley nearly a century ago. He and his brother, Mr. George Shillcock, Ph.C., succeeded to the business on the death of their father in 1884. After the death of his brother in 1930, Mr. Shillcock transferred the business to the present address at 258 High Street. He was a former president of the West Kent Chemists' Association. At the funeral service, held in Bromley Parish Church on July 10, the West Kent Association was represented by Mr. Allan Bone (president), Mr. C. R. Stanyon (past-president), and Mr. Wallace Pring (secretary). Mr. J. E. French (secretary of the Kent Pharmaceutical Committee) was also present. There were many wreaths, including one inscribed with the letters "W.K.C.A."

STONE.—In London, recently, Mr. George Percival Robert Stone, chemist and druggist, for many years in business at 141 Manchester Road, Southport, aged sixty-four.

VAN SCHOOR.—On July 9, Mijnheer Oscar Romain Alfred Van Schoor, Antwerp, secretary of the Fédération Internationale Pharmaceutique, aged sixty-three.

Personalities

MR. CHARLES GARDNER, winner of the King's cup in the air race at Hatfield on July 11, is the son of the vice-president and joint managing director of Yardley & Co., Ltd., Piccadilly, London, W.1.

MR. F. BOURNE has been appointed manager of The Fenton Manufacturing Co., Ltd., powder puff manufacturers, London, E.C.4, the founder and managing director of which is Mr. Ernest J. Spencer.

MR. JOHN W. ROBERTS, M.P.S., London, W.C.1, secretary of the Chemists' Dental Society, has been elected treasurer of the Public Dental Service Association, in succession to Mr. W. L. Jackson, L.D.S.

At the North Wales Provincial Grand Lodge, held at Llangollen, on July 9, W. Bro. G. R. Knox-Mawer, M.P.S. (L. Rowland & Co., Ltd., chemists, Wrexham), was installed as Provincial Junior Grand Warden.

AFTER the business proceedings at the July meeting of the North of England Joint Prescription Committee the members were entertained to luncheon by Mr. T. S. Stonier, chemist and druggist, North Shields. Among the guests were Mr. A. West Russell (M.P. for Tynemouth), the Mayor of Tynemouth, and Drs. Adams and Stonier. After the luncheon the guests were conducted round Tynemouth Priory.

Business Changes

MR. FRANCIS V. GIBBS, chemist and druggist, has purchased the business at 69 Rowlands Road, Worthing.

MR. F. BRADBURY, chemist and druggist, will shortly open premises at 337 Whitegate Drive, Marton, Blackpool.

SAVORY & MOORE, LTD., have acquired the business of Mr. J. P. Hawley, chemist and druggist, Winchcombe, Cheltenham.

MR. R. MACLENNAN, chemist and druggist, late of Edinburgh, has acquired the business of Woodlands Chemists, Ltd., at 4 Cleveland Place East, Bath.

RIMMER BROTHERS (surgical instrument manufacturers) have removed their factory and office to Aylesbury House, 18 and 19 Aylesbury Street, London, E.C.1.

MR. H. L. BLAKE, chemist and druggist, 102 Church Street, Gainsborough, has acquired the business of Mr. L. B. Barrow, chemist and druggist, 34 Lord Street, as from July 1.

MISS A. M. HITCHON, chemist and druggist, late superintendent of T. E. Williams, Ltd., chemists, 40 Cardiff Road, Caerphilly, has taken over the business as from July 6.

THE business of Knight & Crofts, chemists, Castle Street and Regent Street, Hinckley, which has been established nearly 100 years, has changed hands as from May 19. The present owners are Francis Hallam, Ltd., Burton-on-Trent, who are carrying on the business under its old title. Mr. A. W. Crofts, M.P.S., and Mr. M. M. Lamb, F.S.M.C., Ph.C., the previous owners, have dissolved partnership; Mr. Lamb has returned to the North of England, where it is his intention to continue in business, and Mr. Crofts will devote himself to other interests which he has had in London for some years.

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

M/87. Ariane hair curlers	P/13. Joie de Vivre hormone skin cream
E/14. Calamine soap	B/14. Kos cleaning fluid
S/97. Dinnopont	B/37. Lassarine
B/14. Elsinore toilet paper	R/15. Thermohale apparatus
M/13. Elastiko crêpe bandage	B/14. Torpedo inhaler

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July 18, 1936

NO. 2945

Public Health, Law and Practice

THE concluding stages of the Public Health Bill now before the House of Lords mark the codification of a series of statutory enactments dating back for a whole century. We give elsewhere in this issue a *résumé* of those parts of the measure which are of concern to pharmacists. This Bill, as the writer of the article in question points out, marks another stage in the amendment and consolidation of what is commonly known as "public health law"—though that is a term as expansive in its application as is the term "Ministry of Health." "Local Government law" would be a more appropriate phrase for the varied and complex subjects which come under the aegis of the Ministry (which used to be known as the Local Government Board, and the head of which might even now be more accurately described as the Minister of Local Government). However, it is all to the good that we are to have the law relating to Public Health in one statute, instead of having to wade through the enactments of a century in order to arrive at what is being sought after.

The development of public health administration in so many different ways at the present time affords an opportunity which the pharmacist in business should turn to the best advantage. In regard to medicines, surgical requisites, disinfectants and all similar necessities of the public (and, indeed, of hospital and local administrative authorities) there are various avenues of profitable enterprise. One interesting feature is to be seen in the provisions of Section 196 of the Bill referred to by the writer of the article in this issue.

The Position in Salicylates

THE necessity for the recent revisions of prices for some of the products in the group usually referred to as "Salicylates" seems to be due chiefly to competition from sources outside the Conventions of producers. In reviewing recent developments it would be as well first to point out that the sales prices of each product, aspirin, salicylic acid, methyl salicylate and sodium salicylate, are controlled by separate agreements, either international or national; a revision of prices or even the breakdown of the Convention controlling one product is not followed automatically by a similar development in either or all of the other products. So far as salicylic acid is concerned, this market is protected by the fact that importation is prohibited under the Dye-stuffs (Import Regulation) Act, 1920; the Continental position is therefore of no interest here. In the case of methyl salicylate, a substantial reduction was made a short while ago, due to competition which came from Russia and from a producer outside the group of makers in Germany, and this week a further reduction is recorded for the same reasons. The British makers are meeting the competition on this market, but at current prices it is rather doubtful if the business is worth having. The international Convention controlling sodium salicylate was due to expire at the half-year and, right up to the last moment it was generally anticipated that it would be

renewed for a further period, with little or no alteration in sales prices. However, quite unexpectedly, there was disagreement between two Continental producers, and the Convention was allowed to lapse. A reduction of threepence per lb. followed immediately, with the home manufacturers keeping together and meeting the competition. This market is now competitive but the business may be expected to continue with the home makers. The present international Convention controlling aspirin is due to continue in force up to the end of this year. The recent reductions in prices of the other products has no direct bearing on the position of aspirin; in fact, we are reliably informed there is entire agreement within the international group and no revision of the scale of prices is contemplated, and there is no reason to indicate that the Convention will not continue to function at the expiration of the present term of agreement. At the same time the competition of recent months from Japan cannot be ignored: it may have been spasmodic and of little consequence, but if it continues and increases in severity, the European group of producers may decide to take up the challenge and revise their prices accordingly. While, as we have pointed out, there is no direct connection one with another of the products of the salicylates group, as regards sales policy, the market movements of one or more may to some extent indirectly affect positions of the others. The markets generally are somewhat unsteady, but we are of opinion that as regards methyl salicylate the position has been met, and no further downward movements are probable; while in the case of aspirin, the powerful group of European makers are not likely to be stampeded by the competition from the East.

Select Committee on the Medicines Stamp Acts

THE announcement in our issue of July 4 that the Chancellor of the Exchequer proposed to move for the appointment of a Select Committee to consider the law relating to medicine-stamp duty is followed, in the present issue (p 74), by the publication of the House of Commons order setting up the Committee. The terms of reference differ considerably from those of the House of Commons order of April 25, 1912, nominating the Select Committee of which the late Sir (then Mr.) William Glyn-Jones was a member. Those terms were so worded as to give prominence to the advertising of "patent and proprietary medicines and medical preparations and appliances": on the present occasion the emphasis is on "the duties of excise chargeable." The first witness in the 1912 proceedings was Sir Nathaniel Highmore, at that time solicitor to the Board of Customs and Excise, who summarised the history of the Medicines Stamp Acts; and it will not be surprising if the same procedure is followed by the present Committee. In the course of his evidence Sir Nathaniel Highmore remarked that the statutes dealing with dutiable medicines were antiquated: it will be remembered that as recently as 1931 a similar pronouncement was made in the High Court by Mr. Justice Rowlatt. Sir Sidney Rowlatt's final sentence, in delivering judgment in the case of the Attorney-General v. Lewis & Burrows, Ltd., was: "I think I may also add that it is high time this mass of confused, obsolete verbiage comprised in these Acts should be recast." It is not too early to suggest that the privileges of chemists in business under the existing Acts will need to be lucidly explained and strenuously defended before the Committee, and we trust that the organisations which exist chiefly for the purpose of conserving these interests will prepare their evidence in good time.

The Public Health Bill

By a Local Government Expert

CONSOLIDATION of the law relating to public health has long been pressed for by all sections of the community affected; and the process of codification is now proceeding apace. But the overloaded mass of legislation which has found its way on to the statute-book during the last hundred years—to go back no further—and is classified as “public health” law is to be found in the great legal work known as “Lumley’s Public Health”—three massive volumes comprising some 5,000 pages—covering practically everything relating to local government in all its various aspects, including highways, water, gas, open spaces, housing, etc.

The Public Health Bill, now in its final stages before the House of Lords, deals only with what can properly be described as the statutes directly affecting the health of the community. It is the second of a series of measures into which the whole mass of legislation referred to is being divided for purposes of amendment and codification. The first measure became the Local Government Act, 1933. That deals with local authorities, their organisation and powers generally: the present measure deals with sewerage and drainage, domestic sanitation, the cleansing of premises, nuisances and offensive trades, water supply, the prevention and treatment of infectious diseases, hospitals and nursing homes, maternity and child welfare, lodging-houses, canal boats, tent and van dwellings and collateral matters. It is therefore a measure containing much that is both directly and indirectly of interest to the pharmacist. Although at the moment of writing several amendments have been tabled—almost all of them on behalf of the Government—these are chiefly verbal and drafting adjustments and contain nothing materially affecting the general provisions of the Bill. One can therefore deal with those of its provisions of interest to the readers of *THE CHEMIST AND DRUGGIST* without fear of any material change before it reaches the statute-book.

Waste in Drains

Taking these in order, Section 27 (which embodies and enlarges provisions in statutes of 1890 and 1925) makes it an offence to empty or permit to pass into any drain or sewer—

- (a) any matter likely to injure the drain or sewer, or to interfere with the free flow of its contents, or to affect prejudicially the treatment and disposal of its contents; or
- (b) any chemical refuse or waste steam, or any liquid of a temperature higher than 110 degrees Fahrenheit, being refuse or steam which, or a liquid which when so heated, is, either alone or in combination with the contents of the drain or sewer, dangerous, or the cause of a nuisance, or prejudicial to health; or
- (c) any petroleum spirit, or carbide of calcium.

The penalty for any breach of that clause is £10 and £5 a day afterwards; and it is to be noted that the term “petroleum spirit” includes crude petroleum or any product or mixture of petroleum which gives off an inflammable vapour at a temperature less than 73° F.

Section 34, which deals with the right of owners and occupiers of premises to drain into public sewers and to discharge foul water and surface water into them, provides a £20 penalty for the abuse of this privilege by discharging into a drain leading to a public sewer—

“any liquid from a factory other than domestic sewage or surface or storm water, or any liquid from a manufacturing process; or any liquid or other matter the discharge of which into public sewers is prohibited by statute.”

The section also provides for strict user of separate sewers (where they exist) for “foul” water and “surface” water.

Section 46 repeats the provisions of the Public Health Act, 1890, as to the provision of sufficient and satisfactory accommodation in factories, workshops, and “work places” where persons of both sexes are employed or in attendance. This, however, is not applicable to any shop to which the Shops Act, 1934, applies: and Section 47 requires (subject to adequate water supply being available) that all existing closets other

than waterclosets shall be replaced by waterclosets (notwithstanding that the existing facilities are sufficient and free from complaint).

Section 92 deals with what are known as “statutory” nuisances, to wit,

- (a) any premises in such a state as to be prejudicial to health or a nuisance;
- (b) any animal kept in such a place or manner as to be prejudicial to health or a nuisance;
- (c) any accumulation or deposit which is prejudicial to health or a nuisance;
- (d) any dust or effluvia caused by any trade, business, manufacture or process and being prejudicial to the health of, or a nuisance to, the inhabitants of the neighbourhood.

Such nuisances, and the imperfect ventilation of factories and workshops, are to be dealt with summarily (by proceedings before the magistrates or, in case the owner or occupier cannot be found, by direct remedial action on the part of the authorities themselves). The provision as to ventilation is not to apply to any retail or other shop coming within the scope of the Shops Act, 1934.

In regard to notifiable diseases the measure continues the provisions of Sections 3, 8 and 16 of the Public Health Act, 1889, which requires the head of the family, the nearest relative, the person in charge, or the medical practitioner called in, to report any case of a person suffering from such disease. The penalty is 40s., and the only avenue of escape is for the person in default to satisfy the Court that he “believed and had reasonable grounds for believing” that the notice had been duly sent.

New Provisions for Laboratories

A new provision, which should be of particular interest to pharmacists, is to be found in Section 196, which reads as follows:—

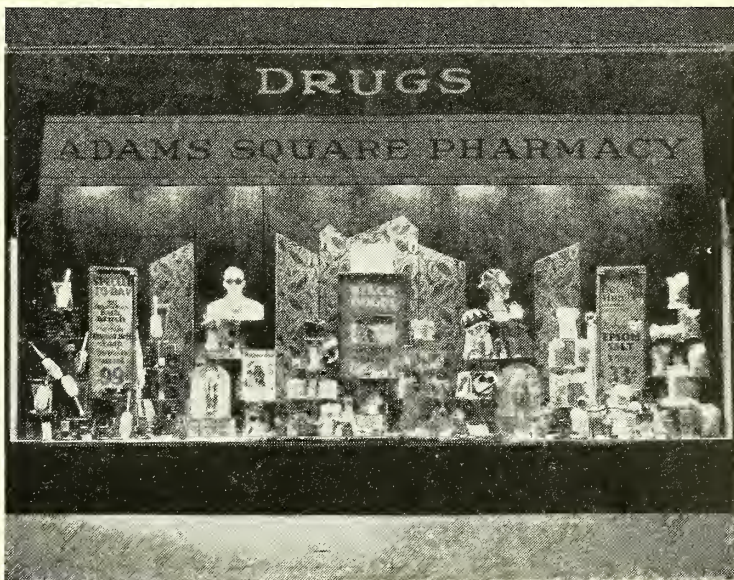
- (1) A county council or a local authority may provide a laboratory for purposes connected with the diagnosis and treatment of diseases and for the making of such bacteriological, chemical and other examinations as may assist them in the performance of their functions under this Act.
- (2) A county council or a local authority who provide a laboratory under this section may allow any person to make use thereof on such terms as they think fit.

That seems to offer opportunities for the exercise of the spirit of enterprise, particularly among the younger generation of pharmacists, whose training on modern lines gives them a special insight into these scientific matters.

Sections 231 and 234 deal with the public bathing question which has arisen as a result of the new craze for bathing pools—a subject of both direct and indirect interest to the medical and pharmaceutical profession. The first three of these sections merely repeat provisions already existing in statutes of 1847, 1875 and 1907, but they afford a good illustration of the benefit which accrues to codification of widely dispersed provisions into one statute. Section 233 is new. It embodies a number of provisions which hitherto have been scattered through various local Acts, but are now to be of general application, relating to the powers of local authorities to be embodied in by-laws. These deal with the conduct of private swimming baths and bathing pools which are open to the public, and concern the cleanliness of the water and the conduct of the place generally.

The “Interpretation” section of the Bill gives the following list of “notifiable” diseases:—Smallpox, cholera, diphtheria, membranous croup, erysipelas, measles, scarlet fever, typhus, typhoid and enteric fevers. The First Schedule deals with the qualifications and remuneration of medical officers of health and other matters incidental thereto. The general list of repeals includes about thirty Acts dating from 1839 down to the present time, with cancellation or variation of different parts of as many more Acts now on the statute-book.

Typical U.S.A. Pharmacy Displays

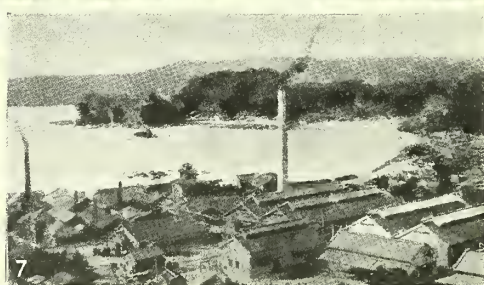


Left, top.—Surgical appliances: Boston Store, Chicago

Left, centre.—Model dispensary: Halliday's, Jacksonville, Florida

Left, below.—Sponge display: Boston Store, Chicago

Right.—Holiday requisites: Adams Square Pharmacy, Glendale, California



JAPANESE IODINE.—FROM SEA-BED TO FACTORY.—1 and 2. Diving off the boat-side in search of seaweed and the return with the yield in the net. 3. Carrying in the seaweed on litters. 4. Transporting pressed bales to the factory. 5.

Drying seaweed in the open, after which it is burnt; thus providing kelp or varel. 6. Kelp being chopped and pulverised before undergoing further treatment. 7. Japan's largest iodine factory.

Japanese Iodine Industry

JAPAN'S iodine industry reached the zenith of its prosperity twenty years ago with an output of 294 metric tons, the largest ever recorded, and then it suffered swift retrogression due to keen competition, until in 1929 production was only 50 tons, of which 29 were exported. Since 1931, when Japan went off gold for the second time, the export trade in this product has gradually increased owing to the advantages of exchange depreciation, and in 1932 the exports of iodine and potassium iodide were 42 and 62 metric tons, respectively. Now the industry has met with further difficulties, again due to competition by Chilean and other producers. Consequently, Japan's exports dwindled until in 1935 they were only 8 metric tons of iodine and 21 of potassium iodide, representing respective decreases of 80 and 65 per cent. compared with 1932. These figures are not likely to be improved on in the immediate future. The following table shows Japan's exports of the two products from 1928 to 1935:—

IODINE

	Output		Exports	
	Kg.	Value (yen)	Kg.	Value (yen)
1928 ...	23,539	—	25,627	—
1929 ...	50,579	—	29,338	—
1930 ...	56,868	—	24,730	—
1931 ...	118,210	2,104,000	33,889	422,000
1932 ...	117,384	3,224,000	42,523	604,000
1933 ...	168,900	2,871,000	28,770	442,000
1934 ...	281,281	3,516,000	19,769	216,000
1935 ...	—	—	8,225	75,000

POTASSIUM IODIDE

	Output		Exports	
	Kg.	Value (yen)	Kg.	Value (yen)
1928 ...	54,259	—	7,361	—
1929 ...	46,056	—	16,528	—
1930 ...	52,636	—	15,076	—
1931 ...	67,300	942,000	52,022	630,000
1932 ...	85,275	1,748,000	61,801	844,000
1933 ...	79,750	997,000	48,424	679,000
1934 ...	88,213	838,000	44,731	410,000
1935 ...	—	—	20,803	142,000

The foregoing figures indicate that Japan's iodine industry depends to a large extent on export trade, and in some years more than one-half of the total output is shipped abroad. But a decline in the foreign trade of the commodity has been conspicuous for the last two or three years and has become even more so this year. Iodine exports for January were only 182 kin. or 240.79 lb., valued at 1,356 yen. Among the buyers, Germany imports the largest quantity, and Belgium, British India, the United States and England come next in that order. Figures for 1934 are: Germany, 5,617 kin iodine, 15,744 kin potassium iodide; Belgium, 5,595 kin iodine, 3,100 kin potassium iodide; British India, 3,303 kin iodine, 12,964 kin potassium iodide; United States, 2,274 kin iodine, 6,849 potassium iodide; England, 2,133 kin iodine, 2,577 kin potassium iodide, respectively.

Ecklonia and *laminaria*, the two varieties of seaweed from which most iodine is extracted in Japan, are abundantly avail-

able along the coast of Hokkaido, the Northern Island, and various parts of Japan proper as well. The iodine content is no greater than that of seaweed used for the same purpose in other countries. The seaweed is collected during three months of the summer and autumn, chiefly by fishing families. Women are mostly employed, and they gather the seaweed by diving. They wear masks, as shown in the photographs, and with experience are able to remain under water for well over a minute. They usually dive off the side of a boat, with a rope attached to them, so that they can be hauled up to the surface in case of emergency.

The fact that the seaweed is plentiful but not particularly rich in iodine content offers to Japanese chemical engineers the opportunity of developing by-products in the manufacturing process and thus lowering the cost of production. Important research in this direction has, in fact, been undertaken at the Tokyo Industrial Experimental Laboratory of the Ministry of Commerce and Industry, and has yielded important discoveries by which activated carbon and alginic acid may be obtained as by-products.

The chemical separation of iodine from brine, by a method similar to that used extensively in Java, the United States and the Soviet Union, is also being established in Japan as a result of extensive study by the Institute for Physical and Chemical Research in Tokyo. By this process chlorine gas is charged into the brine in a separating bath, and the sodium and potassium in the brine combine with the chlorine and are precipitated. The resultant solution is concentrated by evaporation. Iron in the form of scrap or iron salts is then added, causing the iodine and bromine content to combine with the iron. The two elements are then separated. Iodine thus produced has a purity higher than 90 per cent. This represents one of the country's outstanding chemical developments of recent years, and it was brought about by the Aioi Engineering Co., which is a subsidiary of the Hodogaya Soda Company.

Essays of Archibald—IV

I do not hold, kinfided the Boss to me the other nite, with this badgring of the Counsel. Here are we, he ses, just finished picking the Flour of Pharmacy to reppresent us and yet peaple grumble. Twenty-one good men and trew (with three distinguished visitors) are consenatrating on the problems of pharmacy until their hedds ake and yett we hear peaple cumplanning that their efforts give them hartburn.

My sympathies are with the concentrators, ses he, for their munthly visit to Blumsbrie means an increace in the takings at Kamomile Pharmacy, Manhole-in-the-Mudd and ajasent cities. Now that the perseedings are to be giuded by a Bizness Man with an International experiens in perpriatrics and kismmetics, sails are bound to sore and fool benefitt will accrew from resent pharmakutikle legislation. Soon we shall have bonas window shows of hyoscyamine hidrobromyde and phenylethylhydantoin to britten upp the naybourhood and bring along customers in sholes to the Groser next door.

Then look at the bennefits to the kraft, he ses, from the publications; they save me pounds in rapping paper and cost only a paltry twelve thousand odd prannum. In any case irriginal ideas are not found lying around Blumsbrie loose so the next best is to pick upp what is going and follow the Lite as closely as possible. Allways watch what the other fella is doeing for irrignality is dangrouse.

So we turn to our daley task, ses the Boss, with lite harts and emty tills seckure in the faith that prophesise mountains and brings forth moalhills. Keep your eyes glewed on the new Counsel in the sure and certin Hope of something happning.

"What price Hope," sneared the synnickal Jimpkins.

* 1 kin = 1.323 lb.

Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, July 16

WHILE THE HOME TRADE consuming demand is reported to have been about normal, export business has been disappointing, due largely, no doubt, to the present unsettled conditions on the Continent and to exchange difficulties. Sanctions against the import of Italian goods are lifted to-day, but the decree ordering payment to be made into a "Pool" at the Bank of England is causing some Italian shippers to refuse to do business under such conditions. In the PHARMACEUTICAL CHEMICALS markets business has been rather sluggish. Following on the reduction in SODIUM SALICYLATE recorded last week, a further decline in METHYL SALICYLATE is noted this week. ASPIRIN continues steady and unchanged. We refer to this matter on p. 85.

Crude Drugs

There has been a very fair amount of business in these natural products and some of the markets are quite active, while others are particularly firm and tend to advance to still higher values. The shipment market for Cape ALOES seems to have dried up. Spot limits for BUCHU are very firm and still higher prices are indicated by the isolated shipment quotations this week. Consumers will need to watch the shipment market for new crop CASCARA SAGRADA peel; reliable information from the source indicates the position to be genuinely strong on short supply. The shipment market for Norwegian COD-LIVER OIL is quoted dearer. Shipment quotations for Spanish and Portuguese ERGOR are irregular and not entirely reliable at the moment, but it is clear prices will be on a very much lower level than hitherto. HYDRASIS is firmly held at the recent advance, spot and forward. MATTO GROSSO IPECACUANHA is slightly easier on spot. JAPANESE MENTHOL has remained dull; some interest shown in the Chinese product. MERCURY is again at a reduction for shipment. Good business reported in rough, round RHUBARB. Firmer conditions noted in the shipment market for new crop LOBELIA HERB. A good deal of the spot stocks of SENEGA have been bought up and the shipment market is definitely dearer for new crop. Substantial business is reported in all grades of TRAGACANTH and prices have again advanced sharply, with London stocks at a low level, particularly the white grades.

Essential Oils

Conditions in these markets are none too steady, but the variations in quotations are generally based on quality. Business has been on the quiet side. All shipment offers of ANISE (STAR) have been withdrawn, with the source reporting nothing to offer. Spot business in the group of SICILIAN OILS has been of no consequence; shipment offers remain at comparatively high levels with very little inquiry from consumers. CASSIA remains dull and cheap. Ceylon CINNAMON LEAF is slightly easier forward. CITRONELLA remains dull. AUSTRALIAN EUCALYPTUS is again dearer and firm, spot and forward with the source reporting shortage. CALIFORNIAN LEMON shows no further change. LEMONGRASS has touched very low figures forward. JAPANESE PEPPERMINT is steady and the American NATURAL OIL is sharply dearer and firm. The higher prices for SPEARMINT are maintained.

A drug auction will be held at the Commercial Sale Rooms on Thursday next, July 23.

Exchange Rates on London

THE following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

Centre	Quoted	Par	July 16	Value of the £
Amsterdam ...	Fls. to £	12·107	7·37½	12/2½
Berlin ...	Mks. to £	20·43	12·45	12/2½
Brussels ...	Belgas to £	nominal	29·71	16/11½
Copenhagen ...	Kr. to £	18·159	22·40	24/8
Lisbon ...	Esc. to £	110	109½	19/11½
Madrid ...	Ptas. to £	25·22½	36½	28/10½
Milan ...	Lire to £	92·46	63½	13/9
Montreal ...	Dol. to £	4·86½	5·03½	20/8
New York ...	Dol. to £	nominal	5·02½	20/7½
Oslo ...	Kr. to £	18·159	19·90	21/11
Paris ...	Fr. to £	124·21	75½	12/2½
Prague ...	Kr. to £	164·25	121	12/2½
Stockholm ...	Kr. to £	18·150	19·39½	21/1½
Warsaw ...	Zloty to £	43·38	26½	12/2½
Zurich ...	Fr. to £	25·2115	15·34	12/2½

Bank rate 2 per cent.

Pharmaceutical Chemicals, etc.

BUSINESS has been rather slow this week, but the general tone is fairly steady. A further development in salicylates is recorded this week, with another reduction in methyl salicylate, due to competition from imported material.

ACETANILIDE.—Fair inquiry, quoted unchanged: B.P. crystals and powder, 1s. 5½d. to 1s. 8d. per lb., as to quantity.

AMIDOPYRINE.—Market remains dull and competitive: crystals, five cwt., 18s. 0½d.; two cwt., 18s. 5½d.; less than two cwt., 18s. 10½d. per lb., with powder 2½d. per lb. extra.

AMMONIUM ICHTHIOSULPHONATE.—Some small business moving: one cwt., 1s. 6½d., in 14-lb. tins; 1s. 8d., in 1-lb. tins; 1s. 10½d., in 8-oz. tins, and 2s. 1d. per lb., in 4-oz. tins.

ASPIRIN (TABLETS).—The following are agreed wholesale prices for the British makers: Under 5,000, 3s. per 1,000; 5,000, 2s. 11d.; 10,000, 2s. 10d.; 25,000, 2s. 9d.; 50,000, 2s. 8d.; 75,000, 2s. 7d.; 100,000, 2s. 6d.; 250,000, 2s. 5d.; 500,000, 2s. 4d.; 1,000,000, 2s. 3d.; 2,000,000 and over, 2s. 2d. per thousand tablets. A rebate of 1d. per 1,000 is allowed on orders for 10 million tablets taken over a period of 12 months. For small quantities higher prices would be asked by wholesale distributors.

BAFEITONE.—Still but very little inquiry, quotations are keen: spot, one cwt., 15s. 3½d.; 56 lb., 15s. 8d.; small parcels, up to 16s. 3d. per lb.

BENZOIC ACID (B.P.).—Fair amount of business, quoted unchanged: quantities, ex works, 1s. 9½d.; spot parcels, 1s. 10d. to 2s. 3d. per lb., ex store, as to quantity.

BISMUTH SALTS.—Makers' scales of prices unchanged, limited demand: Carbonate, B.P., one cwt., 6s. 6d.; 28 lb., 6s. 9d.; 8 lb., 7s. 3d.; less than 8 lb., 8s. 6d. per lb., with rebates on contracts for larger quantities.

BROMIDES.—Makers' and dealers' scales of prices are steady. Home trade: Potassium B.P., not less than 5 cwt., 1s. 7d.; not less than one cwt., 1s. 8d.; not less than 28 lb., 1s. 11d.; 14 lb., 2s. 1d. per lb. Sodium, B.P., not less than 5 cwt., 1s. 9d.; not less than 1 cwt., 1s. 10d.; not less than 28 lb., 2s. 1d.; 14 lb., 2s. 3d. per lb. Ammonium, B.P., not less than 5 cwt., 1s. 10d.; not less than one cwt., 1s. 11d.; not less than 28 lb., 2s. 2d.; 14 lb., 2s. 4d. per lb., net. 28 lb. parcels and one cwt. cases free. Distributors' prices for quantities less than 14 lb. would be at higher figures. Scales of prices for export, quoted f.o.b. London for prompt shipment, are as follows: POTASSIUM, 5 cwt., 1s. 1½d.; one cwt., 1s. 2d. SODIUM, 5 cwt., 1s. 2½d.; one cwt., 1s. 3d. AMMONIUM, 5 cwt., 1s. 4d.; one cwt., 1s. 4½d. per lb. Contracts over a period are not being booked.

BUTYL CHLORAL HYDRATE.—Market dull, quoted unchanged: spot, 14 lb., 8s.; 7 lb., 8s. 3d.; 1 lb., 8s. 6d. per lb., in 1-lb. bottles.

CAFFEINE.—Continental makers' agreed prices: pure alkaloid, two cwt., 7s. 10d.; one cwt., 8s.; 56 lb., 8s. 2d.; smaller quantities, 8s. 4d. per lb., delivered, 5-lb. tins free, smaller packing extra. Citrate, two cwt., 5s. 5½d.; one cwt., 5s. 6½d.; 56 lb.: 5s. 7½d.; smaller quantities, 5s. 8½d. per lb., delivered. British material: pure, 56 lb., 8s. 4d.; less, 8s. 6d. per lb. Citrate, 56 lb., 5s. 9d.; less, 6s. per lb.

CALCIUM LACTATE.—Business quiet, market steady: spot, one cwt., 1s. 0½d.; 56 lb., 1s. 1½d.; 28 lb., 1s. 2½d.; smaller quantities, up to 1s. 6d. per lb.

CHLORAL HYDRATE.—Makers' prices control the home market: duty-paid crystals, in 14-lb. free containers, five cwt., 3s. 1d.; one cwt., 3s. 2d.; 28 lb., 3s. 3d.; 14 lb., 3s. 4½d. per lb.; 28-lb. jars one penny per lb. extra.

CHLOROFORM.—Makers' prices are as follows: two cwt., 2s. 5½d.; one cwt., 2s. 6d.; 56 lb., 2s. 6½d.; less, 2s. 7½d. per lb., in w-quarts of 8 lb. Packed in drums, ¾d. per lb. less. Small bottles extra, from 5d. per lb. for ¼-lb. bottles to 1d. for 2-lb. bottles. Carriage paid on minimum cwt. lots.

CITRIC ACID (B.P. CRYSTALS).—Fair amount of business moving: British material quoted at 1s. per lb., less 5 per cent. discount, nominal and without engagement. Dealers' prices for imported material are competitive.

CREAM OF TARTAR.—Market is steady, business moderate: British material, 99 to 100 per cent., 79s. per cwt., less 2½ per cent. discount. Dealers' prices for foreign material competitive.

CREOSOTE (B.P.).—Not much business: bulk quantities, in 25-kilo. demijohns, 1s. 8d. to 1s. 9d. per lb.; smaller parcels, 1s. 10d. to 2s. 3d. per lb., ex store.

HEXAMINE.—Makers' prices for bulk quantities are competitive: fair business: B.P. powder, from 1s. 3d. to 1s. 4d.; free-running crystals, from 1s. 4d. to 1s. 8d. per lb., carriage paid, for bulk lots. Dealers quoting free-running crystals, two cwt., 1s. 5d.; one cwt., 1s. 6d.; 14 lb., 1s. 10d.; smaller parcels, up to 2s. per lb., carriage paid.

IODIDES.—Makers' scales of prices steady at the recent reduction: **POTASSIUM IODIDE**, B.P., for quantities not less than one cwt., 4s. 6d.; 28 lb., 4s. 8d.; 14 lb., 4s. 10d.; 7 lb., 5s. 4d.; 4 lb., 5s. 10d.; smaller quantities, 6s. 6d. per lb. **SODIUM IODIDE**, B.P., for quantities not less than 28 lb., 5s. 6d.; 14 lb., 5s. 8d.; 7 lb., 6s. 2d.; 4 lb., 6s. 10d.; smaller quantities, 7s. 10d. per lb. **IODINE**, B.P., resublimed, for quantities not less than one cwt., 5s. 6d.; 28 lb., 5s. 8d.; 14 lb., 5s. 10d.; 7 lb., 6s. 4d.; 4 lb., 7s.; smaller quantities, 7s. 11d. per lb. **ODOFORM**, B.P. crystal, precipitated or powder, for quantities not less than 28 lb., 8s.; 14 lb., 8s. 2d.; 7 lb., 8s. 10d.; 4 lb., 9s. 8d.; smaller quantities, 10s. 8d. per lb. Sales terms: Contracts for one cwt. or more (assorted if required) with "Fall Clause," for delivery over four months. No rebate now applies. Packages: Tins, 28-lb. jars and one-cwt. cases, free. Bottles extra or returnable within three months, carriage paid. Delivery: Carriage paid on all quantities. Re-sale: It is a condition of sale that buyers undertake not to re-sell at prices below or on terms other than those ruling at the time of re-sale.

LACTIC ACID (B.P.).—Quoted unchanged, average business: quantities in carboys, 1s. 4½d. to 1s. 5d.; in winchesters and bottles, 1s. 5½d. to 1s. 10d. per lb., as to quantity.

MERCURIALS.—Makers' scales of prices for these salts are unchanged: Chloride, B.P., not less than one cwt., 4s. 11d.; less than one cwt., from 5s. per lb. upwards, as to quantity.

METHYL SALICYLATE.—Makers' quoted prices have been reduced by one penny per lb.: spot, ten cwt., 1s. 1½d.; five cwt., 1s. 2d.; one cwt., 1s. 2½d.; 56 lb., 1s. 2½d.; less than 56 lb., 1s. 3d.; small quantities in bottles, up to 2s. per lb.

METHYL SULPHONAL.—Market flat and quoted very keenly two cwt., 19s. 3½d.; one cwt., 19s. 9½d.; 56 lb., 20s. 2½d.; small parcels, 20s. 8d. per lb.

MORPHINE.—Makers' prices: Pure, precip., Meconate and Tartrate (neutral), 28s. 4d. per oz. Acetate, Hydrochloride and Sulphate, 22s. 9d. per oz. Diacetyl, 30s. 10d.; Diacetyl Hydrochloride, 28s., and Ethyl Hydrochloride, 21s. 8d. per oz. Home trade rebates: 5 oz., 2½ per cent.; 35 oz., 5 per cent.; 100 oz., 7½ per cent.; 250 oz., 10 per cent., carriage paid. Export rebates are the same as for home trade but quoted c.i.f. overseas destination.

PARALDEHYDE.—Market is rather competitive: in winchester quarts, from 1s. 4½d. in denijohns, from 1s. 1d. per lb., carriage paid.

PHENACETIN.—Rather quiet but steady as quoted: crystals or powder, bulk quantities, 2s. 6d. to 2s. 7d.; smaller parcels, 2s. 7½d. to 3s. per lb., as to quantity.

PHENAZONE.—Not much business and some quotations are exceedingly keen: crystals, five cwt., 8s. 9½d.; two cwt., 9s. 0½d., and less 9s. 3d. per lb., with powder 2½d. per lb. extra.

QUININE SALTS.—Convention prices were advanced as follows from June 8: sulphate, 2s. 2d.; bisulphate, 2s. 2d.; ethyl carbonate, 2s. 9½d.; salicylate, 2s. 10½d.; hydrochloride, 2s. 8½d.; bihydrochloride, 3s.; hydrobromide, 2s. 8½d.; bihydrobromide, 3s.; valerianate, 3s. 8d.; hypophosphite, 4s.; alkaloid, 3s. 0½d. per oz., carriage paid on bulk quantities; 100-oz. tins free, smaller packages extra.

RESORCIN.—British material available on this market: one cwt., 4s. 11d.; 56 lb., 5s.; 28 lb., 5s. 1d.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d.; less than 7 lb., up to 6s. per lb.

SALICYLIC ACID (B.P.).—British makers' scales of prices are unchanged, market flat: five cwt., 1s. 7d.; one cwt., 1s. 7½d.; 28 lb., 1s. 8d.; 14 lb., 1s. 9d.; 7 lb., 1s. 10d.; 4 lb., 2s. per lb.

SALOL.—Not very much business moving: spot, crystals, two cwt., 3s.; one cwt., 3s. 0½d.; 56 lb., 3s. 1½d.; smaller parcels, 3s. 2d. to 3s. 6d. per lb.; powder, 2½d. per lb. extra.

SANTONIN.—Dealers' quotations keen for second-hand parcels at about £21 to £22 per kilo. No change in first-hand prices: not less than 50 kilos., £35 12s. 6d.; not less than 25 kilos., £36 1s.; not less than 10 kilos., £36 9s.; not less than 3 kilos., £36 17s.; not less than 1 kilo., £38 13s. 6d.; less than 1 kilo., £39 13s. 6d. Special prices are in operation for export to all markets.

SODIUM BENZOATE (B.P.).—Fair demand; bulk quantities, 1s. 6d.; one cwt., 1s. 7d.; smaller parcels, 1s. 8d. to 1s. 10½d. per lb., as to quantity.

SODIUM DIETHYLBARBITURATE.—Business quiet, quoted unchanged: spot, one cwt., 13s. 3d.; 28 lb., 13s. 6d.; 14 lb., 13s. 9d.; 7 lb., 14s.; smaller parcels, up to 14s. 6d. per lb.

SODIUM SALICYLATE (B.P.).—Makers' scales of prices for home trade continue at the reduction notified last week: home trade, crystals or powder, five cwt., 1s. 5½d.; one cwt., 1s. 6d.; 28 lb., 1s. 9d.; 14 lb., 1s. 11d.; 7 lb., 2s.; 1 lb., 2s. 3d. per lb.

TARTARIC ACID (B.P. CRYSTALS).—Average business: British makers quote at 1s. per lb., less 5 per cent. discount. Dealers offering foreign material at competitive prices.

Crude Drugs, etc.

ACONITE ROOT.—Dealers are doing a small business in Napellus, quoted at about 67s. 6d. per cwt.

AGAR.—Market has been dull and is quoted unchanged, spot and forward: spot, Kobe No. 1, 2s. 7½d.; No. 2, 2s. 5d.; Yokohama No. 1, 2s. 4½d. per lb.; shipment, Kobe No. 1, 2s. 5d.; No. 2, 2s. 4d.; Yokohama No. 1, 2s. 2d. per lb., c.i.f.

ALOES.—Cape continue firm, with no shipment offers. Curaçao steady at level figures: Cape, spot, if available, 63s. 6d.; shipment, nominal; Curaçao, spot, 97s. 6d. to 110s., as to quality; shipment, prompt, 87s. 6d.; August-September, 85s. per cwt., c.i.f.

ANTIMONY.—Chinese crude is quoted for shipment, July-August, at £23, c.i.f. English regulus, spot, £66 10s. to £67 10s.

BALSAMS.—Market has remained dull: *Tolu*, 1s. 9d.; *Canada*, 2s. 9d.; *Pern*, 5s. 4d. per lb., spot.

BARBASCO ROOT.—The seasonal demand has ended and the market is slack, with values nominally unchanged.

BELLADONNA.—A fair business on spot in small parcels: leaves, 60s.; root, 50s. per cwt., spot.

BENZOIN.—Siam continues firm on a short spot supply: pea size, £22; small peas, £20; blocky seed, £17 per cwt. Sumatra in free supply: middling small almonds, 86s.; fair almonds, £5 5s. to £6 7s. 6d. per cwt.

BUCHU.—One little lot of five bales arrived this week, which about balanced spot sales. Holders are now firm at 3s. for good green rounds and ovals, if available, at 2s. 6d. per lb. A few bales were offered from the Cape this week at 2s. 10d. per lb., c.i.f., for rounds.

BURDOCK ROOT.—Occasional spot inquiry, with small parcels quoted at about 45s. per cwt.

CAMPHOR.—Values about steady, business in small spot parcels: Japanese, spot, tablets, 2s. 5d.; powder, 2s. 2½d.; slabs, 2s. 2½d. per lb., ex store. Shipment, tablets, 2s. 1½d.; powder, 2s. 0½d.; slabs, 1s. 11½d.; per lb., c.i.f. English refined is unchanged: flowers, 1 cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz. and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; ½ oz., ½ oz. and ¼ oz., 3s. 6d. per lb.; special prices for contracts and bulk quantities.

CANTHARIDES.—Small business on spot: Russian, 6s.; Chinese, 2s. per lb.; shipment, 1s. 6d. per lb., c.i.f.

CASCARA SAGRADA.—The firm tone recently reported in this market is fully maintained: spot stocks of old peel are comparatively small, with 1934 peel about 58s. to 60s. and 1935 peel at 55s. per cwt. The source reports the crop of new peel brought in has remained very poor in quantity and as much as 7½ cents per lb. has had to be paid to the collectors for fresh peel; after allowing for shrinkage on drying, which is considerable, the prices that will be required for shipment may well go much higher. At the moment it is possible to book car-load lots at about 43s. 6d. to 44s. per cwt. c.i.f., but shippers are offering sparingly with some withdrawn from the market, as they have been unable to cover their sales already made. To date it seems the volume of business done to this market is below normal, which, with the position at the source, indicates a strong market.

CHAMOMILES.—Dealers are offering last season's flowers at about 90s. to 110s. per cwt., as to quality.

CLOVES.—Market has been rather quiet, but is fully steady: Zanzibar, spot, 7½d.; shipment, July-August, 7½d. per lb., c.i.f. Madagascar, in bond, 6½d.; shipment, July-August, 6½d. per lb., c.i.f.

The landings of Zanzibar in London during the week ended July 11 were 300, and the deliveries 58, leaving a stock of 1,709. From January 1 to date the landings of Zanzibar have been 2,584 and the deliveries 1,950. Landings of Madagascar for the week ended July 11 were nil, and the deliveries 329, leaving a stock of 1,416. From January 1 to date landings of Madagascar have been 1,856 and the deliveries 1,902 packages.

COCONUT (DESICCATED).—Market remains dull, values maintained: spot, fine, 23s.; medium, 22s. 6d. per cwt.; shipment, halves, July, 20s. 9d.; August, 21s. per cwt., c.i.f.

COD-LIVER OIL.—Bergen reports the shipment market is seasonably quiet but firmer: Finest Lofoten steam refined non-freezing medicinal oil, 86s. to 87s. per barrel, c.i.f. London, spot, in small lots, 126s. per barrel, ex store, duty paid. Newfoundland non-freezing medicinal oil, about 130s. per barrel, ex store. British non-freezing medicinal oil is quoted at 100s. per barrel, London, duty free, while quotations from another home source are at higher figures.

COLCHICUM.—Dealers are offering root on the spot at 42s. 6d. per cwt. and seed at 1s. per lb.

COLOCYNTH.—The spot quotation for pulp is firm at 2s. per lb.; shipment, U.S.P. quality, 1s. 10½d. per lb., c.i.f.

DAMIANA LEAVES.—Some parcels of good green leaves are moving slowly at about 7½d. to 8d. per lb., as to quantity.

DANDELION ROOT.—Small parcels of foreign root are available at about 80s. per cwt.

DEKRIIS ROOT.—Market has been practically idle with the end of the season; values nominally unchanged.

ERGOT.—On Wednesday various ideas of values for new crop Spanish were mentioned on the market, ranging from 2s. 9d. quoted, 3s. business offered and refused, and 3s. 4½d., c.i.f., quoted. The market may take a day or two to settle down, but it is already evident that prices for new crop are to be on a much lower level than last year. Portuguese, new crop, reported 3s. was bid and countered with a quotation at 3s. 6d., c.i.f. Thursday: shipment offers: Spanish, 3s. 3d. and Portuguese, 3s. 1d. per lb., c.i.f.

GENTIAN.—Dealers continue to do a fair amount of small spot business, with prices from 37s. 6d. to 40s. per cwt.

GINGER.—Values for West African steady, business quiet: West African, spot, 60s.; for arrival, 56s. per cwt., c.i.f. Jamaican, spot, sold in barrels, 85s. to 90s.; small grinding, 62s. 6d. to 65s. per cwt., in bags, ex store.

GUM ACACIA.—Business has remained rather slow, market steady: spot, Kordofan cleaned sorts, 42s.; bleached, No. 1, 110s.; extra, 120s. per cwt.; shipment, Kordofan cleaned sorts, 39s. 6d. per cwt., c.i.f.

HYDRASTIS.—The source is quoting firm at about 10s., c.i.f., and the chief holder on spot is not selling spot below this figure.

IPECACUANHA.—Rather easier terms are noted, business on the quiet side. Matto Grosso, B.P. test, 5s. 3d. to 5s. 4½d. per lb.; shipment, 4s. 10d. per lb., c.i.f.

KOLA NUTS.—African quarters are available in Liverpool at 2½d., ex store, and West Indian halves at 2½d. London.

LIQUORICE ROOT.—Some new crop natural root is available round about 12s. 6d. per cwt.

LOBELIA HERB.—Shipment offers are dearer, with new crop, August-September, now at 12 cents per lb., c.i.f. On spot, old crop, about 8d. per lb. with more interest shown.

LYCOPodium.—Continues firm and very scarce, with small spot parcels at 5s. 6d. per lb.

MENTHOL.—Market has remained quiet. Japanese, K/S brands, spot, 12s. 10½d.; in bond, 11s. 6d. per lb. Japanese shippers offer August-September at 11s. 3d., refusing bids of 10s. 10½d. For the October-December position shippers ask 11s. 3d., c.i.f., with resellers at 10s. 10½d. per lb., c.i.f. Chinese menthol has attracted attention and is quoted on spot at 12s. 7½d., with shipment, July-August, 10s. 9d. per lb., c.i.f. English, synthetic, is quoted from 7s. 6d. to 10s. 6d. per lb., according to quantity.

MERCURY.—The Spanish-Italian group report their shipment quotation is slightly easier at 59 dollars 50 cents per bottle, f.o.b. Continent; spot, small lots, £11 19s. per bottle, ex store.

ORANGE PEEL.—Dealers quote thin cut peel on spot at about 1s. 2d. per lb.

OPIMUM.—Average small spot business: spot, Turkish, 1s. 3½d. to 1s. 4d. per unit, landed and duty paid. Persian, 12 per cent., 12s. 3d., in bond.

ORRIS ROOT.—No interest on spot. Shipment offers are round about 39s. 6d. per cwt., c.i.f.

PEPPER.—Values are about level on the week, market quiet. Lampong, in bond, 2½d.; shipment, July, 2d.; August-October, 2d., c.i.f. Tellicherry, spot, 4½d.; shipment, August-October, 3s., c.i.f. Aleppy, spot, 4½d.; shipment, August-October, 3s., c.i.f. White Muntok, in bond, 4½d.; shipment, July, 4½d.; August-October, 4½d. per lb., c.i.f.

PIMENTO.—Values are keeping steady, business quiet: spot, 7½d. per lb.; shipment, June-July, 67s. 6d. per cwt.

RHUBARB.—Supplies of Shensi are limited to a few odd cases, for which 4s. 6d. to 4s. 9d. is wanted, with pickings at 2s. 9d. to 3s. per lb. Fair sales of Rough Round with all pinky at 1s. 6d. and ordinary quality, at 1s. 5d. per lb. For shipment, July-August, all pinky, 1s. 2½d. and ordinary quality, 1s. 2d. per lb., c.i.f.

RUBBER.—Following a further advance the market has been quiet and declined, closing level on the week. Standard ribbed smoked sheet, spot, 7½d.; July, 7½d.; August, 7½d.; September, 7½d.; October-December, 7½d.; January-March, 7½d.; April-June, 7½d. per lb.

SEEDS.—ANISE.—Spot, duty paid, Spanish, 58s. 6d.; Bulgarian, 30s. Canary, spot, duty paid, Mazagan, 35s. 6d.; Tangier, 36s.; Spanish, 40s. to 48s. CARAWAY.—Dutch, 37s. 6d. to 38s., duty paid sellers, 33s. 6d. quoted, f.o.b., Holland. CORIANDER.—Morocco, 19s. 6d., spot, duty paid; new crop for July-August shipment quoted at 12s. 3d., c.i.f. CUMIN.—Spot, Malta, 43s.; Morocco, 41s., duty paid. FENUGREEK.—Morocco, spot, 13s. 6d., duty paid; new crop for July-August shipment, 11s. 6d., c.i.f. Business reported. FENNEL.—Indian, spot, 32s. 6d. MUSTARD.—English, 21s. to 32s. per cwt., according to quality.

SENEGA.—There has been a sudden jump in the shipment quotation for raw crop, with the top figure so far reported 1s. 5½d. per lb., c.i.f. On spot, a good business has been done, and it is doubtful if 1s. 5d. would now be taken for old crop.

SENNA.—A few parcels of new crop Tinnevely leaves and pods have arrived on this market, but the quality is rather poor, par-

ticularly in colour. The spot market for good green leaves continues steady, prime bold offering at 7½d.; No. 1 at 6d.; No. 2 at 4½d.; No. 3 at 3d. per lb., with inferior quality at cheaper prices. There has been a better demand for Tinnevely pods at 1½d. to 2½d. per lb., for f.a.q., and hand-picked at 4d. to 5d. per lb., according to quality. Alexandrian inquiry for best quality hand-picked continues fair, but supplies are now difficult to locate. Ordinary to good quality is not receiving much attention, but with supplies of best quality getting scarce these grades will probably have to be called for in the near future.

SHELLAC.—At the recent improved values the market is steady: spot, standard TN orange, 55s. to 60s.; fine orange, 65s. to 135s.; pure button, 65s. to 70s. per cwt., spot. For delivery, TN, August, 55s. 6d.; October, 56s. 6d.; December, 57s. For arrival, TN, July-August, 53s., c.i.f.

SQUILL.—Some spot supplies are available up to 32s. 6d. per cwt.; shipment offers, about 20s. per cwt., c.i.f.

TONKA BEANS.—Values for spot supplies of Para fair frosted beans are steady at 4s. 3d. New crop is quoted round about 2s. 9d. per lb., c.i.f.

TRAGACANTH.—There has been a very substantial volume of business done in this market during the past week. The tone is firm, with values for all grades again sharply dearer. Shipments are still much below normal and supplies on spot, particularly of the white grades, which amount to only a few cases. White ribbon is now quoted from £32 to £33, and now scarce. Medium white grades are dearer at £24 to £26. Pale amber, £17 to £22. Heavy business in amber leaf grades now quoted at £7 10s. to £8, and a brisk inquiry for the lower textile grades, which now stand at £5 10s. to £6 10s. per cwt., ex store, London.

WAX.—BEES'.—Prices are generally unchanged, spot rather dull and shipment offers restricted: Calcutta, bleached, spot, 135s.; only distant shipment offers now being made, with November 122s. 6d., c.i.f. Abyssinian, spot, 120s.; in bond, 108s.; shipment, 107s., c.i.f.; Benguella, spot, 120s.; shipment, 108s., c.i.f.; Conakry, no spot available; shipment, 117s. 6d. per cwt., c.i.f. Dar-es-Salaam, spot, 120s.; shipment, 117s. 6d. per cwt., c.i.f. CARNAUBA.—Market has been quiet, values maintained; shipment quotations steady. Fatty grey, spot, 157s. 6d.; afloat, 150s.; shipment, July-August, 150s., c.i.f. Chalky grey, spot, 157s. 6d.; shipment, July-August, 150s., c.i.f. Primeira, spot, good quality, 215s.; f.a.q., 205s.; afloat, 205s.; shipment, July-August, 196s., c.i.f. Mediana, spot, 205s.; shipment, 192s. 6d. per cwt., c.i.f.

Essential Oils, etc.

No more than normal business is reported, with the general tone about steady. Anise (Star) is firmer. The Sicilian oils are dull and irregular on quotation forward. Eucalyptus is again dearer. Japanese peppermint steady, with the American oil again sharply dearer.

ALMOND.—Average business, market steady: English made, cwt. lots, 2s. 2½d.; smaller parcels, up to 2s. 6d. per lb.; foreign, cwt. lots, 2s. 3½d.; smaller parcels, up to 2s. 7d. per lb. French, bitter, 6s. 3d. per lb.

ANISE (STAR).—Market is firm, due to the entire withdrawal of shipment offers: spot, leads, 2s. 6d.; tins, 2s. 4d.; drums, 2s. 2d. per lb., ex store; shipment, nominal, the source reporting nothing to offer.

BAY.—Market steady, small spot business: 49 to 50 per cent., 4s. 7d. to 4s. 9d.; 59 to 60 per cent., 4s. 10d. to 5s. per lb., as to quantity.

BERGAMOT.—There is little fresh news to report here, but the position is, if anything rather firmer, as it is reported shippers are not too willing to export under the present method of payment by the importer to the Bank of England. Spot holders asking about 8s. 3d. to 8s. 9d. per lb.; shipment offers at about 8s. 3d. to 8s. 9d. per lb., c.i.f. Actual business, spot and forward, is negligible.

BOIS DE ROSE.—Business slow, quotation unchanged: Brazilian, spot, 5s. to 5s. 3d.; shipment, about 4s. 10d. per lb., c.i.f.

CAJUPUT.—Dealers report inquiry is slow: B.P., 1s. 9d. to 2s. 1d. per lb., as to quantity.

CANANGA.—Modest business on spot reported: spot, 8s. 3d. to 8s. 6d.; shipment, 7s. 3d. per lb., c.i.f.

CARAWAY.—Fair business in small spot orders at keen prices: Dutch rectified, 9s. to 9s. 1½d.; crude, 8s. 6d. to 8s. 9d. per lb., landed and duty paid.

CASSIA.—This market remains dull and quoted at low values: shipment, drums, 2s. 6d.; leads, 2s. 7d., c.i.f.; spot, about 3s. 2d. to 3s. 3d. per lb.

CEDAR LEAF.—Scarcity on spot continues, with the value firm at 5s. 6d. to 5s. 9d. per lb. No shipment offers.

CEDARWOOD.—Steady inquiry for small lots: African oil, in drums, 1s.; smaller packings, up to 1s. 4d.; American oil, drums, 1s. 1½d.; smaller packings, up to 1s. 4½d. per lb., spot.

CINNAMON LEAF.—Shipment offers are reported slightly easier for Ceylon oil at about 2s. 5½d. per lb., c.i.f., in drums: spot, drums, 2s. 10½d.; smaller parcels, up to 3s. 1½d. per lb.

CITRONELLA.—These oils remain in slow demand, and are quoted at low values: Ceylon, spot, drums, 1s. to 1s. 1d.; smaller parcels, up to 1s. 4½d.; shipment, drums, about 8½d. per lb., c.i.f. Java, spot, drums, 1s. 3d.; smaller parcels, 1s. 4d. to 1s. 7d.; shipment, drums, 1s. 0½d. per lb., c.i.f.

CLOVE.—There are still very few shipment offers of Madagascar oil and the price is dearer: Madagascar, spot, drums, 3s. 3d. to 3s. 4d.; smaller packings, up to 3s. 6d. per lb.; shipment, if available, now at 2s. 10d. per lb., c.i.f. English oil, 4s. 2d. per lb.

EUCALYPTUS.—The source reports an acute shortage of oil and the shipment price is again dearer: Australian, 70 to 75 per cent., 1s. 2½d. to 1s. 2¾d.; 80 to 85 per cent., 1s. 3½d. to 1s. 3¾d. per lb., landed; higher prices for small lots on spot. Spanish, 70 to 75 per cent., 1s. 3½d. per lb., ex store.

GERANIUM.—This market seems of very little interest at the moment: Bourbon, spot, 21s. to 21s. 6d.; shipment, 19s. 9d., c.i.f.; Algerian, spot, 21s. to 22s.; shipment, 20s. per lb., c.i.f.

GRAPE-FRUIT.—Fair amount of small spot business reported, with Empire hand-pressed oil 14s. to 15s. per lb., as to quantity. Californian oil competitive.

HO (SHIU).—Fair business but prices are very keen. Quoted from about 1s. 6d. to 2s. per lb., as to quality and quantity.

JUNIPER BERRY.—Market shows no change, with spot quoted from 2s. 10d. to 3s. per lb., as to quantity.

LAVENDER.—There is no further reliable news of new crop. Market remains dull. On spot, old oil is quoted irregularly: 50 to 52 per cent., 29s. 6d.; 48 to 50 per cent., 27s.; 40 to 42 per cent., 22s.; 38 to 40 per cent., about 20s.; 36 to 38 per cent., 18s. per lb., landed, for good brands.

LEMON.—Actual business on spot and for shipment in Sicilian hand-pressed oil seems to have been negligible. Spot holders asking from 7s. 6d. to 8s. 9d. per lb., as to brand and quantity, shipment offers appear to be irregular, and range from 6s. 6d. (not firm) up to 7s. 7½d. per lb., c.i.f., but no one seems very interested. Californian distilled, regular quality, small drums, 3s. 9½d.; cold-pressed unchanged, 6s. 3d. per lb., c.i.f.

LEMONGRASS.—This market has been dull all the week and shipment offers are down to 1s. 5d. per lb., c.i.f. Spot sellers from 2s. per lb.

NUTMEG.—Dealers continue to offer American oil at about 5s. 4½d. to 5s. 6d. per lb., as to quantity.

ORANGE.—There is a lack of interest in the offers of Sicilian sweet oil at from 12s. to 13s. 9d. per lb., c.i.f., with the bitter oil quoted at about 8s. 9d., c.i.f. Business on spot in French Guinea oil is also slow, with the price for drums held from 3s. 3d. and smaller packings 3s. 6d. to 3s. 8d. per lb. There is practically nothing offered for shipment, with the price nominal at 3s. 2d. per lb., c.i.f. The Californian oil is steady at recent advance, as follows: one case, 4s.; two or more cases, 3s. 10d.; small drums, 3s. 9d. per lb., c.i.f.

PALMAROSA.—Quoted values are unchanged, business slow. Spot, 5s. 10½d. to 6s.; shipment, 5s. 6d. to 5s. 9d. per lb., c.i.f.

PATCHOULI.—A little more business doing, with values quite steady for genuine oils: Singapore, 16s. per lb.; Seychelles, 12s. to 12s. 3d. per lb., spot.

PEPPERMINT.—Market is about steady, but business has been modest. Spot, 5s. 10½d. to 6s., as to brand; Japanese shippers quote July-August at 5s. 10d. to 5s. 11d., c.i.f., with a re-seller at 5s. 8d. to 5s. 9d., c.i.f. In the October-December position there are sellers at 4s. 10½d. and buyers at 4s. 9d., c.i.f. Chinese has been of interest and is now quoted on spot at 5s. 7d., with shipment, July-August, 5s. 2d. per lb., c.i.f. The American natural oil is again sharply firmer, with quotations for the best brands now up to 2 dollars 75 cents per lb., c.i.f. The effect of the drought on the plantations is reported to have been particularly severe. Some re-packed oil on spot is offering well below cost of replacement with original packages.

PETITGRAIN.—Fair business, market steady: spot, 3s. 6d. for cases and up to 3s. 10½d. for smaller packings; shipment is unchanged at 3s. 3d. per lb., c.i.f., for cases.

ROSEMARY.—Not much business except small spot orders. Good quality Spanish quoted at about 2s. 3d., with some offers under this figure.

SANDALWOOD.—Genuine East Indian Mysore, 19s. per lb., in one-case lots on spot; practically no second-hand offerings. English-made East Indian, 22s. 6d. to 25s. per lb., as to quantity. English-made West Indian, cwt. lots, 5s. 10½d.; 50 lb., 6s. 1½d.; 14 lb., 6s. 4½d. per lb. Australian oil continues steady at the recent reduction; 5 cases, 14s. 6d.; one case, 14s. 9d.; 7-lb. tins, 15s. 3d. per lb.

SASSAFRAS.—At the better figures reported last week the market is steady. Natural oil, 3s. 7d. to 3s. 9d. per lb. Artificial oil at cheaper prices.

SPERMINT.—Shipment continues firm, while spot is irregular on quotation: spot, 8s. to 8s. 9d. per lb.; shipment, firm at 7s. 9d. per lb., c.i.f.

SPIKE.—Still some very cheap offers on the market, but prices wanted for genuine Spanish oil are keeping steady at about 3s. 7½d. to 4s. per lb., as to quantity.

TI-TREE.—Supplies of this Australian oil are now being quoted at 52s. 6d. per gallon, c.i.f., in 4-gallon tins.

VEETIVERT.—Dealers are quoting small parcels of Bourbon on spot at about 37s. 6d. per lb.

WORMSEED.—Not much doing except some small spot business. U.S.P. quality, spot, 9s.; shipment, 8s. 7½d. per lb., c.i.f.

Madagascar Essential Oil Exports

Shipments of essential oils for the first nine months of the past three years were as follows:—

Product and Destination	1933 (9 months)		1934 (9 months)		1935 (9 months)	
	Metric Quintals	Value Francs	Metric Quintals	Value Francs	Metric Quintals	Value Francs
<i>Ylang Ylang</i>						
France	151	1,205,000	146	1,124,000	229	1,716,000
U.S.A.	16	128,000	6	44,000	5	34,000
Others	1	5,000	1	4,000	1	12,000
Total... ..	168	1,338,000	153	1,172,000	235	1,762,000
<i>Lemongrass</i>						
France	385	577,000	384	891,000	447	1,119,000
Germany	—	—	11	27,000	—	—
Total... ..	385	577,000	395	918,000	447	1,119,000
<i>Other perfumery oils</i>						
France	38	271,000	25	217,000	18	124,000
<i>Oil of Cloves</i>						
France	703	1,317,000	504	826,000	814	1,302,000
Great Britain	208	379,000	163	249,000	182	291,000
Netherlands	61	111,000	130	210,000	205	327,000
U.S.A.	54	97,000	50	66,000	10	17,000
Germany	13	23,000	—	—	10	17,000
Japan	—	—	—	—	28	44,000
Totals	1,039	1,927,000	847	1,351,000	1,249	1,998,000

Sudan Gum Acacia Exports

BOXALL & Co. report shipments during May, 1936, were 2,084 tons, compared with 2,308 tons in May, 1935. Shipments for the period January-May, 1936, totalled 10,845 tons, compared with 9,578 tons in the corresponding months of 1935. The following were the chief destinations:—

Destination	1935			1936		
	Jan.-April	May	Total	Jan.-April	May	Total
Great Britain	1,419	604	2,023	2,033	543	2,576
U.S.A.	1,476	368	1,844	1,228	324	1,552
France	705	400	1,105	1,917	299	2,216
Germany	632	158	790	1,036	309	1,345
Italy	515	90	605	14	—	14
Belgium	514	117	631	480	180	660
Japan	802	113	915	411	125	536
Holland	230	58	288	381	57	438
Spain	121	54	175	96	4	100
Sweden	136	55	191	175	19	194
Norway	16	5	21	15	9	24
Australia	242	61	303	222	71	293
New Zealand	26	1	27	20	8	28
China	73	15	88	111	15	126
Canada	32	50	82	103	14	117
British India	11	—	11	11	15	26
Denmark	27	13	40	66	8	74
Finland	48	10	58	47	2	49
Poland	15	12	27	23	5	28
Rumania	7	2	9	37	18	55
Turkey	16	—	16	23	5	28
Greece	20	7	27	39	12	51
Egypt	43	49	92	39	3	42
Argentina	56	10	66	29	—	29
Brazil	18	29	47	63	16	79

The export figures are made up of the following qualities:—

	Hashab	Bleached	Talha	Total
May, 1935 tons	2,111	8	180	2,308
May, 1936 tons	1,839	5	240	2,084
January-May, 1935 ... tons	8,859	45	674	9,578
January-May, 1936 ... tons	10,179	29	637	10,845

Correspondence

Letters should be written on one side of the paper only. Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

The Prescribing of Insulin

SIR,—The call for insulin at the counter is now not uncommon. It is obtainable in several strengths (20, 40, 80 units per c.c.), which without care and knowledge may be confused. Recently I was told by a medical practitioner of high standing of a case in which the patient had unwittingly obtained insulin of greater concentration than he had been using and disastrous results ensued. The purchaser was unaware of the varying strengths, although he noticed the price was higher than hitherto. The doctor suggested that the notice of chemists should be drawn to the need of special care and caution for ascertaining the strength of insulin required when it is supplied to members of the public.

I am, etc.,

K. J. PADWICK.

Brighton.

Standardisation of Tablets

SIR,—The papers read at the Science Section of the Conference are often outside the scope of the work of the retail chemist, relating as they do mostly to work in the research laboratory; but the one read by Mr. Bernard F. Howard on the standardisation of tablets (*C. & D.*, July 4, p. 20) deals with the problem which arises constantly in the course of daily business. It happens at times there is a run of prescriptions for some particular tablet, and in order not to be out of stock a supply is obtained from another wholesaler whose delivery is due, only to find that the new lot are of a different size from the old. Two difficulties arise from this: first, a customer who has had several repeats notices the difference and queries their correctness, and secondly, there are always some odd tablets left which cannot be dispensed with the new ones to make up the quantity ordered. In the days when pills were prescribed more frequently and were dispensed extemporaneously it was the rule that all sizes under 1 gr. should be made up to 1 gr. in weight; a similar rule should be adopted for tablets. In addition to a difference in size and weight, in the case of thyroid tablets there is also a variation in colour, which might be overcome in some way. Another difficulty arises with phenazone tablets; on being in stock a little while they sometimes develop dark spots, rendering them unsaleable. The B.P. lays down definite standards and tests for many drugs and preparations, and when one purchases from a reputable manufacturer there is an implied warranty that these standards are maintained; it should therefore be a fairly easy matter to state a standard size and weight for tablets.—Yours truly,

COMPRIME (7/7).

The Business of a Council Candidate

SIR,—The resolution from Oldham which was passed at the Bournemouth Conference, that the business of candidates for election to the Council of the Pharmaceutical Society should be stated on the voting papers, is one which will have the approval of most chemists who trouble to use their votes. In the case of a candidate who is interested in more than one class of business, presumably each kind will have to be stated, although in some cases the distinction may prove rather difficult to define. A chemist who owns several branch shops is a retailer; if he turns his business into a limited company he becomes a director; for the purpose of this classification does he cease to be a retail chemist and become a company trader? Or would the term company in this connexion be taken to mean a company which is run by financial interests more than by pharmaceutical? I do not like the idea that pharmacy should be considered to be composed of conflicting elements among the respective councillors; it is an idea which has taken root owing to the growth of companies which are formed to buy up pharmacies as a dividend-earning proposition, and also to the trend of some manufacturers to supply all kinds of traders with pharmaceutical products. Theoretically it should be to the interest of the wholesaler and the manufacturer to support the individual chemist; but this idea has been lost sight of in the keenness of competition, and in these circumstances I do not see how one man can repre-

sent more than one section impartially. There is the same feeling about this as there is about the same person being elected to two bodies, such as the Council of the Society and the Executive of the N.P.U. However, when the electors have the information before them they will be able to choose for themselves.—Faithfully yours,

SINGULUS (13/7).

Apothecaries' Assistants

SIR,—In moving the resolution at Bournemouth which called for steps to be taken to discourage the training of Apothecaries' Hall students by pharmacists in institutions and shops and in schools of pharmacy (*C. & D.*, July 11, p. 53), Mr. J. H. Franklin said that many people did not or would not differentiate between the Hall certificate and the pharmaceutical qualification. The want of understanding of this distinction extends to some of the holders of the Hall certificate. Some time ago, when advertising for a qualified assistant, I received a reply from a young lady who in her letter giving particulars put the word "qualified." When she called for an interview I asked her which qualification she held, the chemist and druggist or the pharmaceutical chemist, and it turned out to be the "Hall." I pointed out the waste of time incurred through answering an advertisement for a qualified position when the qualification she held had no legal value as regards a shop, in that she could not be left in charge of a pharmacy or supervise the dispensing or sale of poisons. She was rather indignant at my explanation, and I do not think I convinced her that she was not qualified from the chemists' standpoint. Unfortunately we see in many pharmacies young people employed and partially trained who have no intention of taking their qualification or even a Hall certificate.—Yours truly,

FULLIQUA (14/7).

An Early Closing Problem

SIR,—It would seem from the report from Manchester (*C. & D.*, July 11, p. 47) that on application by a majority of proprietors the shops in any area can be exempted from early closing requirements, and apparently this has been done to a considerable extent in that city. I presume that where the exemption is granted the position of the assistants with regard to their half-day holiday remains unchanged. There is, however, a danger of the regulations being evaded unless the local shop inspector is very alert, and an assistant might be placed in the predicament of losing his half-day or his post. The question of Sunday closing will be the next one to confront us; the clause in the new Bill dealing with the sale of medicines has now passed through the committee stage (*C. & D.*, July 11, p. 45), and from the wording I can foresee difficulties in interpreting it in practice.—Yours, etc.,

SUNDAY WORKER (14/7).

The Right Attitude

SIR,—In reply to the letter of Mr. Gilleghan (*C. & D.*, June 20, p. 711) in defence of the National Pharmaceutical Union, one can only judge from the published reports, and there appears to be a different attitude from that of the Scottish Pharmaceutical Federation. I was a member of the R.P.U. from its commencement and have read their reports. I admit that it has done good work in many cases, but it has seemed to me in the past that there has been too much spirit of compromise, and in some claims or disputes between chemists and customers these have been settled too readily by payment of damages or costs sooner than fighting the case. Most chemists could give instances of customers repeating remarks which reflect on the chemist's work and his honesty, and which if made by a chemist to the patient of a doctor might involve him in an action for libel. One or two cases on the lines of the one commented on from Scotland, with publication of the apology, would go a long way towards reconstituting the pharmacist's lost status.—Yours faithfully,

PROTESTOR (21/6).

Dispensing Notes

A Safe Mixture

SIR,—Will you kindly inform me if the following is a safe mixture to dispense and, if so, the best method:—

Syr. Eastoni ̄ij.
Mist. bromidorum (N.F.) ... ad ̄viii.

Yours faithfully,

E. D. O. (22/77).

[In mixing mist. bromidorum and syrup. Eastoni the bulk of the resulting precipitate is ferrous phosphate thrown down by the borax. It is therefore better to dispense this by putting ̄ij. of Easton's syrup in a pint measure, and adding the mist. bromidorum an ounce at a time, with stirring. It will be found that more than three-fourths can be added before much actual precipitation occurs. This method gives a finer precipitate than the reverse method. Precipitation is due to two causes:—(1) The presence of borax which precipitates ferrous phosphate (and also a little alkaloid unless some glycerin is present); (2) the glycyrrhizin of the liquorice, which is a precipitant of most alkaloids. However, there is only a small quantity of liquorice present, not enough to produce a dangerous strychnine precipitate. As a matter of fact, analysis shows that the bulk of the alkaloids is still present in the mother liquor, and incidentally it must be remembered that Easton's syrup, B.P., 1932, contains only half the strychnine it used to. The mixture is harmless if dispensed with a "Shake" label.]

A Troublesome Eyewash

SIR,—I am having some bother with the enclosed eyewash. Though perfectly clear and brilliant when dispensed, it soon becomes darker, after a few days definitely cloudy, and eventually quite a deposit forms. Could you suggest the cause and the remedy?

Ac. tannic. gr. vj.
Sodii bicarb. ̄j.
Glycerin. ̄ij.
Aq. camphor. ad ̄vj.

Yours truly,

W. J. Y. (8/68).

[Your trouble is possibly due to the presence of ammonia in distilled water, coupled with perhaps some gallic acid in the tannin. Such a mixture is at the best in the nature of a delicate and unstable reagent. If the bicarbonate loses some of its CO₂ the reaction is hastened, and this does occur in hot weather. The presence of ammonia and its salts in distilled water is very common, otherwise fungoid growths would hardly take place. Mere boiling is not sufficient to get rid of it. Glycerin may also contain traces of ammonia, and although the B.P. does not give a test for it, it is tested for when glycerin is used as an analytical reagent.]

Acid, Iodine and Quinine

SIR,—Please let me know the best way to make up this prescription:—

Tinct. iodi ℥L.
Quin. sulph. gr. xvj.
Ac. sulph. dil. ℥xvj.
Syr. limonis ̄ss.
Aq. ad ̄viii.

Yours faithfully,

T. A. H. (9/6).

[The best way to make up the prescription quoted is to dissolve the quinine with the aid of the acid in about ̄ij. of water, add ̄ij. of mucilage of tragacanth, mix well, then add the tincture of iodine a few drops at a time, shaking after each addition. Then make up to the required volume with water. Nothing will prevent the precipitation of the red-brown polyiodide of quinine, but this procedure makes an almost colloidal precipitation. From the point of view of the patient, possibly the best method would be to rub down the quinine in a mortar with a little water. Add ̄ij. of mucilage of tragacanth, mix thoroughly, add the iodine tincture and dilute with water to the required volume, that is to say, omitting the acid and the acid syrup. A dose of the resulting mixture could then be taken in a little milk. The prescriber would have to be informed before this procedure is adopted.]

Poisons Queries

Subscribers are asked before sending us inquiries to consult the *C. & D. "Poisons Guide,"* also the following articles which have appeared in the *C. & D.*: How to Supply Poisons (January 18, p. 69); Labelling of Poisons (March 7, pp. 284, 285); Wholesale Dealing in Poisons (April 25, p. 493).

H. E. P. (3/72).—As the preparation contains more than 12 per cent. of sodium hydroxide, it must be labelled:—"Caution. This substance is caustic," as provided in Schedule VII (5).

J. D. (10/74).—Ipecacuanha wine is not a statutory poison in Great Britain, being exempted under Schedule III, Group 2, of the Poisons Rules. As you are no doubt aware, a printed slip was inserted in the British Pharmacopoeia, 1932, stating that when ipecacuanha wine is prescribed or demanded, tincture of ipecacuanha shall be dispensed or supplied.

F. H. B. (6/72).—When a registered medical practitioner orders barbitone tablets for his own use, signing of the poisons book is the alternative to sending a written order. A signed order must state the purpose for which the substance is required, the seller must be satisfied that the signature is genuine and, if posting the substance, must send it by registered post. To the words "signed order" in the poisons register, a reference number of identification must be added.

B. & H. (30/67).—The labelling of medicine supplied by doctors and veterinary surgeons is governed by Section 19 of the Pharmacy and Poisons Act, a summary of which is given under the heading of Medicine on p. 20 of the *"C. & D. Poisons Guide."* In writing to these practitioners, it would also be advisable to draw their attention to Rule 12, relating to the restriction on the sale of poisons in the Fourth Schedule. As regards your own label, in addition to the percentage of strychnine being indicated, it will also be necessary to label it with the words "Caution: It is dangerous to exceed the stated dose."

Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics.

A Visit to Germany

I should be pleased to get in touch with any chemist accepting Messrs. Bayer's invitation to Germany (August 17).—J. W. Cox, 14 Sherbourne Road, Acocks Green, Birmingham.

Lime Water for Warts

The article on "Warts Treated by Suggestion" (*C. & D.*, July 4, p. 35) leads one to reconsider the reasons for adopting the usual methods. In cases where there are a number of warts it is impracticable to use a caustic of any kind, and internal remedies are resorted to. The remedy advised commonly over the counter is a tablespoonful of lime water three times a day for a month or six weeks, and generally it works. Is there any medicinal value in such a remedy, or is it merely a case of suggestion?—*Callosum* (6/7).

Appreciations

My aim in writing is to congratulate you on the Special Issue of the *C. & D.* (June 27). In my opinion you have not published a better one, and I have been reading the *C. & D.* every week for thirty-five years.—G. M. (1/7).

Out of the many articles in the Special Issue, the one which strikes me most, as a retailer, is the one entitled "Pharmacy's Offspring" (p. 737), giving an account of some of the well-known businesses founded by chemists and druggists. In addition to the businesses described in this article, there are others which owe their inception and success to the activities of chemists. Another article in this issue of special interest to retailers is that dealing with make-up (p. 727); the *Cosmetic Harmony Chart* fills a long-felt want, as by reference to it one can see at a glance the colours to advise for any particular complexion. It would be a great advantage if the manufacturers would agree to a standard nomenclature instead of using different terms for the same shades.—*Colorem* (30/6).

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are used for, and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

J. W. B. (9/69).—DEPILATORY.—The sulphides of barium, calcium, strontium, potassium, and sodium are the agents most frequently employed in depilatories. They are diluted with other powders designed to overcome the irritating effect of the sulphides, but even the least irritating preparation made in some cases causes dermatitis owing to the idiosyncrasy of the user. There is a large number of formulas in these preparations in "Pharmaceutical Formulas," Vol. II. As an alternative to such preparations a depilatory collodion or depilatory stick may be employed. The formulas for these are as follows:—

Depilatory Collodion			
Tincture of iodine (1 in 10) ...	...	...	½ dr.
Venice turpentine ...	...	...	1 dr.
Castor oil ...	...	...	1½ dr.
Rectified spirit ...	...	...	1½ oz.
Collodion ...	...	...	6 oz.

Depilatory Stick			
White wax ...	...	...	¼ oz.
Beeswax ...	...	...	½ oz.
Resin ...	...	...	1 lb.

R. I. (10/78).—NIGGER STAIN.—As a paint for a nigger troupe, we suggest lamp black made into a paste with glycerin, and dabbed on the skin with a sponge.

A. R. S. (7/77).—TAR ON DOG'S PAWS.—There is no way of preventing the tar from the roads adhering to the dog's paws, but the best way of removing it is by means of butter. Should there be any inflammation or interdigital cysts, the parts should be dabbed with liquor carbonis, or the feet soaked in a very weak solution of lysol.

S. C. S. (14/74).—RAT POISON.—The proportions in your recipe are somewhat different from those recommended by the Ministry of Agriculture; their formula being as follows:—

Red squill ...	...	...	1 part
Fine oatmeal ...	...	...	2½ parts
Dripping ...	...	...	1½ parts

W. F. (29/64).—LEMON SYRUP LABEL.—We have not been able to trace any record of a prosecution for such a label, but in view of the activities of public analysts, we think it would be advisable to insert some words showing that the syrup is made according to an exclusive formula, since syrup of lemon is still a B.P. preparation. It is unlikely that the syrup would keep without some preservative, but salicylic acid is not allowed; the only preservatives that are allowed are benzoic acid, 600 parts per million, or sulphur dioxide, 350 parts per million.

J. H. T. (26/66).—TURTLE OIL CREAMS.—An article on the manufacture of turtle oil creams was published in the *C. & D.*, 1935, I, 269. We think the following formulas will meet your requirements:—

	A	B
Turtle oil... ..	50	30
Almond oil	27	46
Lanolin	15	16
Beeswax	8	8

The most suitable preservatives are the hydroxybenzoic type. Melt the beeswax and lanolin in a water bath, add the almond oil, heat until clear. Remove from the source of heat, and stir in the turtle oil. If it is found necessary to reheat, care must be taken not to exceed the melting point of the whole, as turtle oil is not improved by being subjected to high temperatures. In formula B enough turtle oil is included to claim the title, but in this case the object is as an aid to the assimilation of the others. As the commonly accepted skin food is creamy-opaque, water and borax can be used if the beeswax be slightly increased, then add:—

Borax	0.02
Distilled water	20
Beeswax	I

Heat the water slightly above the temperature of the cream, add, stir well and transfer to a mortar and mill until a smooth cream is produced.

L. P. (3/77).—TONIC FOOD FOR PUPPIES.—The following would be suitable to give the bulldog puppies:—

Ferri phosph.	gr. 2
Calc. phosph.	gr. 4
Sod. phosph.	...
Potass. phosph.	aa. gr. 2
Veterinary malt extract	1 oz.

Dose: Half to a small teaspoonful once daily. An alternative preparation could be made from halibut-liver oil and malt extract.

R. J. B. (14/72).—COLOURING MAGGOTS.—Chrysoidine is the aniline dye which is frequently used for colouring maggots a brownish colour. For other colours any of the usual aniline dyes used for colouring foodstuffs would presumably answer your purpose.

E. W. J. (36/67).—TREATMENT OF BLACKHEADS.—The usual local treatment for blackheads is by means of a sulphur lotion, for example:—

Sulphur. precip.	gr. xxx.
Spirit. camphor.	5ss.
Aqua calcis	5j.

The face should be washed in soap (sulphur) and warm water before applying the lotion. After the skin has been softened by washing, the blackheads should be extracted and then the lotion applied.

While there may not be signs of indigestion, it is advisable to take a digestive remedy while the trouble persists, and small doses of Epsom or glauber salts should be taken fairly frequently.

R. C. T. (31/72).—STERILISING B.I.P.P.—The bismuth and paraffin are sterilised by dry heat at a temperature of 120° C. for half an hour, and the bismuth after cooling is mixed with the iodoform in a mortar which has been sterilised by means of boiling water and formalin. The paraffin is added to the mixture at a temperature of 90° C. and thoroughly mixed, then put into specially made collapsible tubes with nozzle ends, holding 40 to 80 grams. The paraffin used should be semi-solid, odourless and tasteless, melting-point 45° C., free from acidity and carbonisable organic impurities. The iodoform should be free from moisture, acids, and fixed impurities. It is also necessary that the bismuth be chemically pure, free from arsenic, and care taken in sterilising that the temperature does not rise too high, otherwise nitrous fumes will be evolved.

Retrospect of Fifty Years Ago

Reprinted from

"The Chemist and Druggist," July 17, 1886

General Index to the "Year-Book of Pharmacy"

The Executive Committee of the British Pharmaceutical Conference have just published an index to their whole series of year-books, which covers the work done expressly for the Conference from 1864 to 1885 inclusive, and the world's work reported in abstract in those year-books from 1870 to 1885. Roughly it may be said to present a condensed record of the labours of pharmacists for the past twenty years. That index covers 246 octavo pages, and at first sight seems to present a magnificent array of facts. And it does this; but it is a little sad to glance through the index and observe how infinitesimal is the proportion of knowledge acquired which has been brought into practical service, and how small in amount progress in pure pharmacy bulks in the whole. . . . Where our workers have made the greatest impression is in chemistry and materia medica, and both of these have to a large extent gone hand in hand. . . . There is one fact which is strikingly evident—pharmacists have during the past twenty years made a distinct bid for a scientific reputation outside of pharmacy. This is, in a sense, regrettable.

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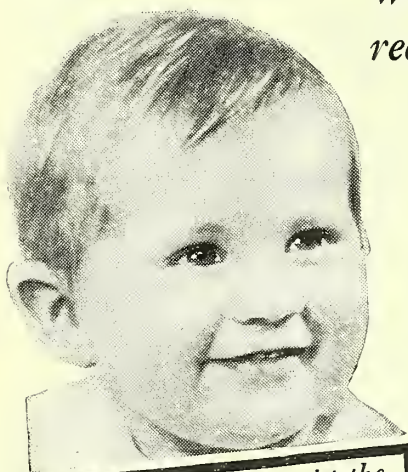
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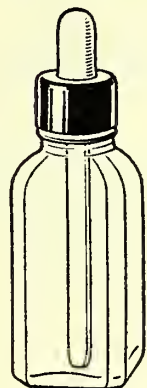
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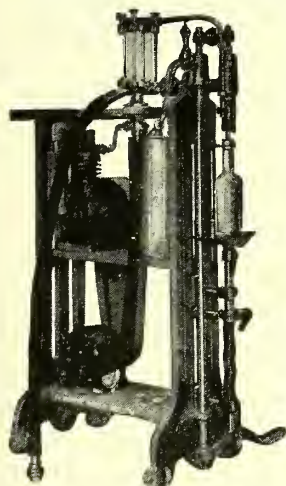
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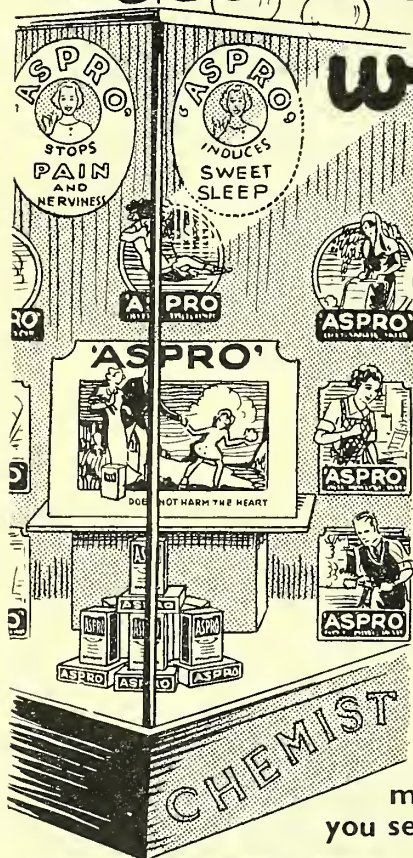
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6.—NORTHWOOD, MIDDLESEX (NEAR).—Good-class Family Retail Business for sale on account of vendor's ill-health; turnover for last completed financial year £1,317; gross profit 35.54 per cent.; audited accounts; this year shows an increase; double-fronted shop beautifully fitted in light oak; good, clean, saleable stock; stock and fixtures, apart from new shop front, are worth £590; good living accommodation at present sub-let but possession could be obtained; reasonable rental; no near opposition; price £900 all-at or near offer, or valuation terms entertained.

7.—BROCKLEY (NEAR).—Business for disposal owing to ill-health; net profit nearly £8 per week; stock and fixtures worth £550-£600; living accommodation at present sub-let at nearly £1 per week; total rent £90 per annum; rates £23 per annum; price all-at £900 or near offer, or valuation terms entertained.

8.—HAMPTON COURT (NEAR).—General Retail Business for disposal owing to retirement of vendor; takings last year exceeded £1,550; gross profit £595; double-fronted shop well fitted; stock worth £300-£400;

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9.—DEVONSHIRE COAST.—General Retail Business with Toilets and Fancy Goods; increasing turnover, last year being £2,036; gross profit about 35 per cent.; double-fronted shop very well fitted; good general stock worth about £600; rent £100 per annum, rising to £120 per annum; price £300 for goodwill, fixtures, etc., plus stock at valuation.

10.—ROMFORD (NEAR).—Business and Branch for disposal with increasing turnovers; takings last year £3,200; good profits; reasonable rentals; living accommodation over branch; inclusive price for the two businesses £1,450 or valuation terms entertained.

11.—SURREY (Few miles out).—Middle-class General Retail Business; takings average £25 per week; good profits; stock worth about £400; house over with bathroom; rent £70 per annum; price all-at £750 or near offer; genuine reason for disposal.

12.—BERKSHIRE (Attractive town).—High-class Business for disposal; takings present rate £15 per week plus panel, increasing; Maws fixtures; good, clean, saleable stock; stock and fixtures worth nearly £600; lock-up shop; reasonable rent and rates; price all-at £600.

13.—PLYMOUTH (NEAR).—Branch Business for disposal; takings under management £900 per annum; rent and rates £40 per annum; price all-at £350; stock worth £200; scope for increase.

14.—KENT COAST.—General Retail Drug Store for disposal in present hands 17 years; very stable turnover, last year being £865; net profit nearly £5 per week; good valuable stock; nice fixtures; living accommodation; garden; new Lease at £1 per week or property could be purchased; price asked for the business £500 all-at or near offer.

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Correspondence, mutually confidential, is invited from prospective purchasers of the following businesses at present available for purchase.

(C1) SUSSEX (POPULAR SEASIDE RESORT—NOT BRIGHTON).—Attractive modern Pharmacy for sale owing to retirement; turnover upwards of £2,600 per annum; net profit £600; rent £150; lease 21 years; good private dispensing connection; price to comprise approximately £750 for goodwill, plus value of stock and fixtures, estimated at £1,500.

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(C5) LONDON, S.W.—Attractive middle-class Pharmacy showing steadily increasing returns, which are now at the rate of approximately £2,350 per annum, and should undoubtedly reach an early £3,000, consequent upon building extensions now in course of process; premises situated in congenial area; reasonable overheads; price asked £1,500, or very near offer; nothing less entertained; please supply bankers' references.

(C6) PECKHAM (NEAR).—Pharmacy with good living accommodation, including bathroom, garden, garage, etc.; present returns approximately £25 weekly; excellent scope for further increase; reasonable rental; price £730 or near offer.

(C7) LONDON, S.E.—Two Cash Businesses, with splendid prospects for considerable further development, can be acquired either jointly or separately, at reasonable figures; present returns small, but are capable of immediate increase; little opposition; further particulars upon application.

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CHEMISTS.—When you are wanting Shopfittings send your requirements to GEORGE COOK, The Working Shop Fitter, over 40 years' experience, 27 Macdlesfield Street, City Road, London, E.C.1. 'Phone: Clerkenwell 5371. Sketches and Estimates free. Shop Fronts, Drug Fittings, Wall Cases, Dispensing Screens, Silent Salesmen, Counter Drawers.

THE entire Fittings and Fixtures of a handsomely fitted Pharmacy for disposal. For particulars and price apply Youngs (Chemists), Ltd., 42 Belvoir Street, Leicester.

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BURY.—Old-established Business, working-class district; good N.H. Insurance Dispensing; rent £45, with house; price £250; stock at valuation, about £200, or could be reduced. 44/26, Office of this Paper.

LONDON. Established Chemist and Druggist Business; under indifferent management; smart lock-up shop; main road; reasonable rent; turnover last year £823; gross profit 40 per cent.; splendid opportunity for Chemist with small capital able to give personal attention. 45/11, Office of this Paper.

LONDON, N.W.—Good-class district; old-established Chemist's Business for disposal owing to death; nice, well-fitted shop in main road; £650 or near offer, and stock at valuation. Apply 44/41, Office of this Paper.

LONDON, N.W.1.—Price of stock and fixtures only; part purchase may remain to a good man; suit Qualified only, as a large Panel may be built up; good all-round general at full prices; old-established. Fairfax, 116 Seymour Street, near Euston Station.

MANCHESTER.—Well-stocked and fitted Double-fronted Shop on busy main road; turnover £40 weekly; N.H.I. 600 scripts monthly; stock approximately £600, fittings £350; Kodak, Selo, Rexall and Ucal; good living accommodation attached; rent £70 per annum; best offer around £2,000. (A splendid business, well recommended.)

Better-class Business in a popular suburb, established over 7 years; turnover £45/£50 weekly; N.H.I. 300 monthly; double-fronted lock-up shop in midst of busy shopping area; good Toilet, Photographic and Prescribing trade done; well fitted, including Neon signs; rent £90 per annum; best offer around £2,000.

H. ANNIS, M.P.S., Annis Medical Agency Limited,
51 South King Street, Manchester.

NEAR BRIGHTON.—Attractive, modern lock-up Pharmacy in main thoroughfare of growing neighbourhood; steadily increasing turnover; good opportunity for Qualified owner-proprietor; genuine reason for sale. Apply 44/25, Office of this Paper.

SOUTH-EAST ENGLAND.—For Sale, an old-established (80 years) Business, Family, Retail, Agricultural and Dispensing; satisfactory lease; fittings in first-class condition; average turnover £1,000; rent £52; good house, with one room-let professionally for 10s. weekly; large garden; exceptional opportunity for personal control; open to offers; banker's reference required. 283/252, Office of this Paper.

SURREY.—Sound business; due to ill-health; average returns last 4 years, £1,200 at good profit; long lease at moderate rent, with good living accommodation; every investigation invited; about £800 all for stock, fixtures and lease. 44/38, Office of this Paper.

A WONDERFUL opportunity to acquire a Pharmacy at present taking £32 per week in suburban main road; proprietor is forced to sell at £450, s.a.v.; at present under management. P.C.B. 211/24, Office of this Paper.

CASH Chemists' Business for Sale, N. London; rare opportunity, as owner leaving Retail; turnover £33 weekly at full prices; considerable scope for increase; excellent position; modern shop front and fittings; self-contained maisonette above; price £850; s.a.v., about £350; first reasonable offer secures. Write BM/JPH, London, W.C.1.

CASH Chemist, Hammersmith; middle working-class; lock-up premises; living accommodation might be arranged; Photographic; N.H.I. 450 monthly; rent, rates £104; turnover £1,891; net profit £491; exceptional opportunity for full-time enterprise; proprietor now required to render entire services in family concern; quick sale, £875. Full particulars "C. F. C.," 5 Kimberley Road, Chingford.

ESTABLISHED Chemist Business in S.W. London for disposal owing to death of proprietor; stock, goodwill, long lease of shop and other accommodation. Full particulars to principals only, Rowden, Solicitors, 261 Lavender Hill, London.

GENUINE BARGAIN.—Light Retail Branch Business; returns under management over £1,200 per annum for past three years (increasing 1936); shop, well fitted with mahogany; rent 20s. per week, with house and garden; investigation invited; vendor, who is retiring, will grant lease; accounts fully audited; price; goodwill £150; stock and fixtures, about £500, at valuation. A. E. Farrow, Sandling, Maidstone.

SUIT YOUNG QUALIFIED OR LADY PHARMACIST.—Modern attractive Country Pharmacy, Scotland; business easily run; scope for increase and Optics; Rexall Agency neglected; old established; rent, rates and overheads 25s. weekly; turnover £1,000, net profit £280; s.a.v. £350; fixtures, fittings, goodwill £250; first reasonable offer accepted for quick sale. 43/2, Office of this Paper.

£425.—BUSINESS to be disposed of immediately; due to illness; good investment. 44/49, Office of this Paper.

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EAST LANCs.—Shop Premises to let; main road; 1 large display window; shopping centre; suitable Chemist; middle- and good-class working population; dense district; N.H.I. work waiting; last tenant 10 years (not Chemist); living accommodation if required; decorated; electric light; no ingoing. 43/8, Office of this Paper.

HIGH-CLASS N.W. LONDON SUBURB.—Splendid opening for the establishment of a new Chemist and Druggist business; excellent premises within two minutes of Tube Station to be Let without premium at a moderate rental; frontage 19 ft., depth 50 ft., giving ample room for Photography, Optician or Dentist; owner would fit smart shop front for right type of tenant. Write 284/301, Office of this Paper.

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ADVERTISER seeks Chemist competent make liquid Disinfectants, Pine, Eucalyptus, Carbolic; Partnership in business offered; must be prepared to give whole time and to invest £50; opportunity of earning £8 to £12. Write V. P. S., 48 Eardley Crescent, Earls Court, London, S.W.5.

TO SPORTSMEN ONLY.

A CHEMIST, over 39 years odd in same establishment, will gladly help other genuine Sporting Pilulae (over 21) to make money.

Write Box 284/297, Office of this Paper.

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239 BEDS

REQUIRE the services of a Head Dispenser, Pharmaceutical Society's qualifications essential.

Applicants must have practical experience of Pharmacy relating to Hospital Dispensing, and be capable of taking full control of the department and staff. Strict disciplinarian essential. State fullest particulars, including age and salary required. Applications to reach the undersigned not later than Saturday, July 25.

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BELFAST AND NORTHERN IRELAND.—Manufacturers' Agent, with good connection amongst Chemists, is open to Represent Manufacturers or Wholesalers of Specialities handled by Chemists. Apply 284/306, Office of this Paper.

AGENTS wanted to sell Beverage (half-pound tins) to Chemists exclusively; commission basis; only first-class Agents with good connections should apply. 283/290, Office of this Paper.

WANTED by an Old-established Druggist Sundry House covering the Midlands and North-Eastern Counties Agencies for well-known Proprietary Lines; state terms of business in confidence; highest references given; would negotiate either on a commission basis or bona fide sales outright; only well advertised goods entertained. 43/18, Office of this Paper.

SITUATIONS OPEN.

RETAIL (HOME).

6s. for 40 words or less ; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

BLACKPOOL.—Unqualified Male Assistant wanted; tall; good personality. Apply personally or by letter to H. Fingerhut, M.P.S., The Chymist, 43 Abingdon Street, Blackpool. Replies not answered in 7 days respectfully declined.

BRISTOL.—Immediately; Qualified Assistant and also a Junior Assistant. Apply by letter, with copies of testimonials, giving experience and salary required, 43/17, Office of this Paper.

E. YORKS.—Vacancy occurs for Qualified Assistant; easy hours but not essential, for medium-class N.H.I. and light Counter (possible permanency); no Window-dressing. State age, height, experience (enclose references and photo if possible) and minimum commencing salary to 44/32, Office of this Paper.

HERTS.—Qualified locum required, Lady or Gent., for September 4 for 3 weeks; please state salary required and references. Apply 284/295, Office of this Paper.

LEICESTERSHIRE.—Qualified Assistant required as soon as possible in middle-class Pharmacy; interest or partnership entertained (if required) to proved applicant; accountants' figures; give full particulars, experience, references, married or single, wages required and when disengaged. 44/5, Office of this Paper.

LIVERPOOL.—M.P.S. required at once; young Lady preferred, but not essential, for medium-class N.H.I. and light Counter (possible permanency); no Window-dressing. State age, height, experience (enclose references and photo if possible) and minimum commencing salary to 44/32, Office of this Paper.

LIVERPOOL.—Qualified Assistant required for working-class district. Full particulars of experience, salary required, etc., 284/302, Office of this Paper.

PHOTOGRAPHS, TESTIMONIALS, &c.

When answering advertisements in this section applicants are strongly advised not to send (unless specially requested) ORIGINAL TESTIMONIALS or VALUABLE PHOTOGRAPHS. As can be readily understood, when an advertiser receives from 100 to 150 replies the task of returning photographs, testimonials, &c., is one of some difficulty.

LONDON, E.—Qualified Assistant (permanent); also Temporary Assistant, until end of September; middle-class trade and N.H.I. Dispensing; give full particulars of experience, names of references, when disengaged, age and salary required. Apply (letter only) "Pharmacist," 37 Sydnor Road, London, N.16.

LONDON, S.E.—Energetic young man, with some Retail experience; able to drive car or motor cycle for collection and delivery of orders; no Dispensing; state age, experience, wages, when free, etc. 44/6, Office of this Paper.

LONDON, S.W.—Dispenser-Secretary, Qualified and with experience, wanted for private practice. 44/37, Office of this Paper.

LONDON, W.5.—Required at once, a Young Unqualified Assistant for Dispensing and Counter; modern Window-dresser. Apply, with full particulars in first instance, to Bruces' Ltd., 28 Broadway, Ealing, W.5.

MANCHESTER.—Locum required, Qualified, August 2 to August 8. Apply "M.P.S.," 4 Grange Terrace, Wilmslow Road, Rusholme, Manchester.

NEAR MANCHESTER.—Wanted immediately, elderly Qualified Lady or Gentleman; easy hours; permanency; please state full particulars in first letter as to salary, etc., required. 44/10, Office of this Paper.

NORTH LONDON.—Experienced Unqualified Assistant (young) wanted; Dispensing, Counter, Photographics and Window-dressing; willing and reliable; to commence August 31; give names of previous employers and full particulars, including salary. 44/8, Office of this Paper.

SURREY.—Qualified Manager required; permanency for suitable man. Apply, giving full particulars, also photo, 284/304, Office of this Paper.

SURREY.—Required soon, Unqualified Assistant (not over 40), either as locum until September 26 or permanency if desired; reliable Dispenser, good Counter experience essential. Apply with full particulars and send photo if possible, 44/52, Office of this Paper.

WESTGATE-ON-SEA.—Wanted, Junior Assistant for season, one taking July Minor preferred; two kept; reasonable hours. Apply with full particulars, age, height, salary, photo (if convenient), Pyman, Chemist, Westgate-on-Sea.

A QUALIFIED Lady Assistant required, mainly for Dispensing, in large business; no Sunday or half-holiday duties; 48-hour week; send particulars, experience, age, salary, enclosing photograph; interview required. Secretary, Derby Co-operative Society, Ltd., Albion Street, Derby.

A SMART Young Man wanted as Manager, for N.W. suburb; permanency; commence August 10. P.C.B. 211/23, Office of this Paper.

A YOUNG Qualified Manager required for small branch in Surrey. State full particulars and enclose photo if possible, 284/303, Office of this Paper.

A T ONCE.—Qualified Assistant for Counter and Dispensing; London, W. Apply 44/29, Office of this Paper.

A T ONCE.—Unqualified Male Assistant (under 30); smart, experienced; Optical qualification an advantage; suitable for one living near and starting Part 2 Course in October; callers only. Dean, Chemist, 37 Theobald's Road, W.C.1.

EXPERIENCED Unqualified Assistant (age about 28-30), of neat and clean habits, required for quick Cash and Dispensing business; must be able to dress a Window artistically and have a knowledge of Dispensing; a good and tactful Salesman seeking a permanency. Apply, giving full particulars, 44/4, Office of this Paper. Letters not answered in 4 days respectfully declined.

JUNIOR Assistant for good-class Country Business; must be reliable Dispenser. Apply with full particulars, stating date available, Bates & Hunt, Wellington, Salop.

JUNIOR Assistant (male) (age 19-22); accustomed to good-class Dispensing and Counter business. Full details of experience, age, salary required, etc., to John Stanley, M.P.S., 196 Station Road, Edgware, Middlesex. Lady Assistant (Qualified) also required, for business in Essex.

JUNIOR Assistant, male or female, required for branch in North London. Please state age, height, experience, salary expected, 44/39, Office of this Paper.

JUNIOR Assistant, with Dispensing experience, wanted for Relief, August 4 to September 12; state age, salary required and last employer. Cooper, 107 London Street, Reading.

JUNIOR, early in September, for good-class country business; good Dispensing experience essential and one having passed Preliminary Scientific preferred. Meynell, Tenterden, Kent.

LOCUM, Qualified, lady or gent, for few weeks; state salary required. H. E. Graham, Ltd., 22 Burlington Street, Bolton.

LOCUM.—Qualified, male, for whole of August; outdoors; no Sunday duty. Please send full particulars, H. G. Williams, 118 The Moor, Sheffield, 1.

LOCUM, Qualified, required for month of August, S.W. London district. Apply Masons, 89 Acre Lane, Brixton, S.W.2.

MANAGER wanted for branch 2 miles from Chesterfield, at once; permanency; easy hours; no holiday or Sunday duty; girl help; age, height, married or single, when free, and all particulars first letter; salary to commence about £4. Wharton, Chemist, Chesterfield.

QUALIFIED Assistant or Locum required immediately; permanency for suitable applicant; experience not essential; youth an advantage. Write, forwarding full particulars, including salary required, Ileys, Ltd., Ryhope, near Sunderland, Durham County.

QUALIFIED.—Assistant required at once for branch; quick, accurate Dispenser; permanency. Apply, full particulars, Cargills (Chemists) Ltd., 68 Lower Broughton Road, Salford, 7.

QUALIFIED Assistant required, principally for Dispensing; permanency; must have had high-class experience. Apply Quibell, 885 Finchley Road, N.W.11.

QUALIFIED Assistant, unmarried, required end July or early August for new shop; good post for suitable man. State full particulars, 45/8, Office of this Paper.

QUALIFIED Assistant wanted. Full particulars as to age, height, experience, references, salary to Venables, Chemist, 260 Upper Tooting Road, S.W.17. 'Phone: Streatham 2443.

QUALIFIED Assistant, with sound knowledge of Optics, required; must be capable of taking complete charge, and possess unquestionable references. State age, experience and salary required, to R. A. Neville, 74 Cowley Road, Oxford.

QUALIFIED Chemist required at once for N. London Retail Pharmacy; either sex; age no objection. Telephone: Clissold 3030.

QUALIFIED Gentlemen required for August 17 to September 12, inclusive. Particulars, age, experience, salary required, etc., to Williams, Chemists, 14A Argyll Street, Oxford Circus, W.1.

QUALIFIED Lady Assistant (M.P.S.) wanted about end of August, for working-class business; used to N.H.I. Dispensing and Window-dressing. Apply, with full particulars and salary required, Freeman, Chemist, Chatham. Letters not answered within 7 days respectfully declined.

QUALIFIED Lady Assistant required; smart appearance; permanency; commence immediately; some Dispensing, but mainly Counter; must have good Counter personality; knowledge of Window-dressing and Photography an advantage. Apply Howard's Ltd., 182/4 Old Kent Road, S.E.1. 'Phone: Rodney 4097.

QUALIFIED Lady for comfortable permanency in good-class business in S.E. London. State age, experience and salary required to Bernard Phillips, Ltd., 27 Northcote Road, Clapham Junction, S.W.11.

QUALIFIED Lady required shortly to manage and work up small branch shop at Edgware; must be keen and energetic. Salary required and all particulars to Lady Chemists, Ltd., Mill Hill, N.W.7.

QUALIFIED Lady wanted, to commence beginning of August, for small branch business in North London. Write, giving usual particulars, to Beck, 60 High Street, Stoke Newington, N.16, or 'phone Clissold 0335.

QUALIFIED Locum required for one week commencing September 14. Terms and particulars to The Managing Secretary, Cinderford Co-operative and Industrial Society, Ltd., Town Hall Buildings, Cinderford, Glos.

QUALIFIED Locum wanted August 24 for a fortnight. Write or 'phone Brookes & Burnby, 98 Lisson Grove, Marylebone, N.W.1. Paddington 5606.

QUALIFIED Man wanted (over 30) for good-class business in Midland town; knowledge of Homœopathic work. Full particulars salary, etc., to 44/30, Office of this Paper.

QUALIFIED Man, young, required, August 1 or before; good-class business; permanency; comfortable post. Manor Pharmacy, Upper Mulgrave Road, Cheam, Surrey.

QUALIFIED Manager, Lady or Gentleman, required for Cheadle district; nice house if required; good salary. Also locum for 2 or 3 weeks commencing September 7. Apply, Dutton, 1248 Ashton Old Road, Manchester.

QUALIFIED Manager, young and capable of business-building, for suitable remuneration, required for North London; permanency for the right man. Please state age, height, experience, salary required and addresses for references, to bear the strictest investigation, 44/40, Office of this Paper.

QUALIFIED Superintendent wanted; male or female; part or full time. Alexander's Pharmacy Ltd., 89 Lever Street, E.C.1.

QUALIFIED (young) required for Dispensing and Counter. References and full particulars to Strange, Chemist, 185 Lower Clapton Road, E.5.

ROBERTS & CO. require Qualified Junior Dispenser. Write 76 New Bond Street, London, W.1.

TWO Live Qualified Assistants required for Manchester Chemists; full details and photo if possible in first instance; permanency. 45/18, Office of this Paper.

UNQUALIFIED Lady or Gent. wanted for season; Cornwall. State usual particulars in first letter, enclosing photograph, 45/5, Office of this Paper.

WANTED, Locum, Qualified, for one week, July 20-25 or 27 to August 1 inclusive. Terms and references, Findlay, Oakleigh Pharmacy, Hillingdon Heath, nr. Uxbridge, Middlesex.

WANTED.—Qualified Lady or Gentleman, elderly or otherwise, part or full time, as Superintendent; state salary required. 44/16, Office of this Paper.

YOUNG Male Unqualified Assistant wanted about the end of July for good-class Dispensing Business, S.W. London; one who has passed Part I; state salary required in letter; permanency. 284/296, Office of this Paper.

WHOLESALE.

A WELL-KNOWN Yorkshire firm, doing extensive trade in Patent Medicines, Proprietary Articles and Fancy Goods, require a Manager for this department. Applicants are requested to give, in confidence, full details of previous experience, age and salary required, to 284/294, Office of this Paper.

ENTIRELY new Bath Products and other interesting quick-repeating items available to Representatives with established connections Chemists, Stores, Beauty Parlours; remuneration solely by commission of 15 per cent.; Scotland, Midlands, Southern Counties only. Write P.C.B. 211-21, Office of this Paper.

IMPORTANT Firm of its kind has one or two opportunities for aggressive, intelligent Sales Representative (26-35) to call upon Chemists; some satisfactory previous selling experience with Chemists essential; also ability to pass fidelity bond and physical examination; must be able to drive a car and free to travel in any part of the United Kingdom. Address application, with full particulars of previous experience, etc., which will be treated in strictest confidence, 284/305, Office of this Paper.

MANUFACTURING Chemists producing comprehensive range of attractive lines (several advertised) require keen Representatives on generous commission basis; territories open: North of England, Wales, West of England, Eastern Counties, Northern Ireland. Full particulars to 284/307, Office of this Paper.

MEDICAL PROPAGANDA.—Three experienced Representatives are required; resident in London, Bristol and Leeds; duties to commence in September; this detail work embraces well-known Proprietaries; applicants should state age, experience and salary required. 36/1, Office of this Paper.

PART-TIME Representative required for advertised Beauty Product, London and Suburbs; good connexion with Chemists essential; generous commission. Write, stating other lines carried, Box 841, Potters, Aldwych House, Aldwych.

POWDER Puffs and Sponge Bags.—Agent calling best to medium Retail trade; large range; commission only, but active connexion handed over. 42/7, Office of this Paper.

REPRESENTATIVE required; must have had Pharmaceutical training, have previously represented a Drug House in Yorkshire, Durham and Northumberland, and have definitely established connexion over the area, with entrée to all Retail and Wholesale Chemists and Stores; give full particulars of experience and salary required in first application. 283/293, Office of this Paper.

REPRESENTATIVE to call upon Hospitals, Medical Men and Dentists in the South and South-Western Counties; applicants should give full particulars of their past experience, stating age, and whether car available. Reply in first instance to 284/299, Office of this Paper.

REPRESENTATIVES calling on Chemists and Hairdressers wanted to carry good side-line; easy to sell; to work on commission basis 15 per cent. 44/35, Office of this Paper.

WANTED.—Assistant to Buyer in well-known firm of Manufacturers of Food and Pharmaceutical Products, situated near London. Write fully to 283/291, Office of this Paper.

SITUATIONS WANTED.

RETAIL (HOME).

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

A.A.A.A.—MANAGER; disengaged; over 20 years' thorough experience all branches; West End and Suburban; worker; abstainer; excellent references. "Chemist," 30 Lorne Gardens, Park Road, N.W.8.

AS Locum or temporary Assistant; abstainer; varied experience; middle aged; at liberty August 10. "Chemist," 42 Alexandra Road, Southampton.

BIRMINGHAM District preferred, but not essential; first-class experience; well recommended; locum work undertaken. Hanley, 180 Lozells Road, Birmingham.

EX-PROPRIETOR (age 32) desires position of trust; locum or permanent; free August. E. H. Biggin, M.P.S., Henstridge, Somerset.

JERSEY, C.I.—Assistant (21), Unqualified, now working in London, desires change to Jersey; permanent; reliable Dispenser; varied Counter experience; good references. 43/1, Office of this Paper.

NAMES AND ADDRESSES.

When sending advertisements for any of the sections in this Supplement, advertisers—as a guarantee of good faith and not necessarily for publication—should always give their names and addresses. It sometimes occurs that this rule is not followed and delay and disappointment ensue. Strict attention to this detail will be appreciated.

LADY Dispenser (Hall) seeks post; London or Essex preferred. Miss Dorothy Lawrence, "Resthaven," South Hill, Langdon Hills, Essex.

LOCUM; anywhere; any period; Unqualified (45); excellent references; good all-round man. "Locum," 2 Walham Grove, Fulham, S.W.6.

LOCUM, experienced, trustworthy; disengaged August 3 to 8 and from September 14. Harris, "Wateringbury," 96 Darnley Road, Gravesend.

LOCUM; free August 1; thoroughly reliable, with excellent references; any distance; Unqualified. "A.," 27 Marquis Road, London, N.4.

LOCUM, available July 27-August 8, waiting result Part II; excellent references. Kemp, 80 Wells Road, Bath.

LOCUM, Qualified; highest references; fully experienced. Jenkins, Hathaway's Pharmacy, Lydney, Glos.

LOCUM (Unqualified); disengaged for July and August; excellent references; Yorkshire, West Riding, preferred. Josy, 39 Broomhill, Castleford.

MANAGER (37), Prescribing Herb and/or Drug; capable, energetic, resourceful; Showcards, Window-dressing; square deal promised for "free hand"; £4 or £5, with living accommodation. 44/1, Office of this Paper.

M.P.S. (37) seeks permanency; married; good all-round experience; London or Middlesex preferred; free at short notice. 44/51, Office of this Paper.

QUALIFIED (36), tall, married, 12 years' management experience, seeks progressive permanency, preferably Branch Manager; free after August 1. Benson, 62 Northcote Road, Battersea, S.W.11.

QUALIFIED Chemist-Optician (24) seeks position in West Country; experienced Dispenser and Counterman; Toilet, Photographic and Veterinary; able Refractionist; own apparatus; Devon preferred. 43/14, Office of this Paper.

QUALIFIED Manager (27), Scot, married, seeks progressive position offering scope for ability; all-round experience; trustworthy; London preferred. 44/21, Office of this Paper.

RELIABLE, Unqualified Assistant; 20 years' experience with Family Chemists, Dispensing, Counter, Photography, etc. Laurence, 43 Heaton Road, Peckham, S.E.15.

SERVICES offered, lately own business, locum, relief; small remuneration; Unregistered. Locke, 71 Cromwell Road, South Wimbledon.

UNQUALIFIED Assistant (24) requires post with Chemist-Optician, near London; Part I, F.S.M.C. Marshall, Ingleside, St. Chads Road, Chadwell Heath, Essex.

UNQUALIFIED (22), just finishing apprenticeship, desires situation as locum; free July 20-September 19; Counter, N.H.I. Dispensing, Photography; Part I. Sarkin, 32 Keyes Road, N.W.2.

UNQUALIFIED Assistant (23), male, desires locum work, London or suburbs; disengaged July 22; experienced in Dispensing, Counter and Window Display. Griffiths, 19 Fawe Park Road, Putney.

Price lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

WHOLESALE.

A LONDON Representative, exceptionally strong, extensive connexion Chemists, Allied Trades, Stores, desires to join reputable firm; salary and commission; highest credentials; car. 45/10, Office of this Paper.

A DVERTISER desires post good house, either Representative or inside; conscientious and absolutely trustworthy; recent outside representation Southern Counties; considerable Retail experience, 16 years one firm; references excellent (phone Sales Manager, Hop 0707); disengaged; car available; moderate remuneration. F. J. M., 57 Huxley Road, Welling, Kent.

A DVERTISER wants to represent Wholesale House; 20 years' Retail experience; salary and commission. "Medicus," 19 Upper Park Road, Hampstead, N.W.3.

A DVERTISER seeks position where an aptitude for the development of New Packs, etc., is required, preferably in Toiletries; competent of Factory Management, Buying, Costs, etc. 45/16, Office of this Paper.

A N Accomplished Medical Interviewer and skilled Propagandist, with wide experience and a unique knowledge of Medical Men, their requirements and susceptibilities, desires re-engagement. "A," 21 Gloucester Place, Brighton.

E XPERIENCED Representative; large, sound personal connexion Chemists, Departmental Stores, etc., Toilets, Perfumery, Soaps, Cosmetics, S.W. London, South Coast; own car; disengaged; excellent credentials. 44/13, Office of this Paper.

E XPERIENCED Traveller of highest integrity (M.P.S., F.B.O.A. (Hons.)), desires represent really good house (Druggists' Sundries), commission basis; Perth to Thurso (own car), with Aberdeen as centre, where have stockroom and staff; bankers' refs.; state commission. 284/300, Office of this Paper.

R EPRESENTATION.—Ex-Manufacturing Chemist wishes to recommend his leading Representative after 15 years' faithful service; a most successful Speciality Salesman, hard worker and of sober habits; aged 37; he carries a pleasing personality and has a valued and extensive connection in all the Midland counties. Write "Director," 49 Yardley Road, Acocks Green, Birmingham.

R EPRESENTATIVE, own car, general connexion London and Home Counties, wants part-time line; commission and part expenses. 43/9, Office of this Paper.

R EPRESENTATIVE, with strong connexion Chemists, London and Hertfordshire, desires to represent good Sundries House; salary and commission. 42/3, Office of this Paper.

Y OUNG Man, single, all-round experience, Pricing, Invoicing, etc., good references, seeks situation. H. M., 38 Burgoyne Road, Harringay, N.4.

Y OUNG Man (25), wishes represent well-known firm; connexion 300 Chemists, London and Home Counties; 8 years' selling experience; keen Salesman; hard worker. 23 Esmond Road, Chiswick, W.4.

FOR SALE.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

(Articles to the value of £5-£50.)

B ARGAINS.—Pako Printer (treadle), £9; Abbeydale Enlarger (1 pt.), f6 Mutar Anastigmat, £7; Avery Coin Freed Personal Weighing Machine, £18; carriage forward. Quantity of Second-hand and Soiled Cameras, Enlargers, etc.; list on application. Braid, Chemist, Exmouth.

C ASH Register, "National" make, in perfect order; adds all cash, also prints sales; bargain. Write: P. Skelton, 72 Smithies Road, Abbey Wood, S.E.2.

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